This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

Mass Doc 29.75.10

Harvard College Library

FROM

City of Springfield

Mass Doc 24.

Commonwealth of Massachusetts

Municipal Register
of the
City of Springfield
1907

CONTAINING

City Officers and Committees, Mayor's Address, Reports of the Various Officers and Committees, Jury List, also the Receipts and Expenditures for the Fiscal ... Year ending December 10, 1906 ...

Press of Springfield Printing and Binding Company, Springfield, Mass.
1907

Commonwealth of Massachusetts.

MUNICIPAL REGISTER

OF THE

CITY OF SPRINGFIELD

FOR

—1907—

CONTAINING

CITY OFFICERS AND COMMITTEES, MAYOR'S ADDRESS, REPORTS OF
THE VARIOUS OFFICERS AND COMMITTEES, JURY LIST;
ALSO, THE RECEIPTS AND EXPENDITURES
FOR THE FISCAL YEAR ENDING
DECEMBER 10, 1906.

PRESS OF
SPRINGFIELD PRINTING AND BINDING CO.
SPRINGFIELD, MASS.
1907.

Mass Doc 29.75.10

2217-3?/6

HARVARD COLLEGE LIBRARY
JUN 8 1915
CAMBRIDGE, MASS.

SEP 10 1915

CONTENTS.

	PAGES
City Officers, 1907,	7–15
City Officers, 1852–1906,	953–973
Jury List,	687–716
Mayor's Address,	17–28
Ordinances, 1906,	903–921
Taxes,	923–947
Valuation of Property,	949–951

REPORTS OF DEPARTMENTS.

Auditor,	733–742
Board of Health,	585–620
Building Inspector,	661–665
Clerk,	681–686
Committee on Poles and Wires,	581
Engineer,	523–553
Fire Alarm Telegraph,	233
Fire Commission,	193–234
Forester,	639–649
Lighting Streets,	667–680
Liquor License Commission,	651–659
Marshal,	241–251
Overseers of the Poor,	555–569
Park Commissioners,	621–638
Physician,	583
Police Commissioners,	235–251
Property Committee,	717–732
Schools,	29–191
Agent,	97–115
Superintendent,	49–60
Sealer of Weights and Measures and Inspector of Coal,	575–579
Sinking Fund Commission,	743–755
State and Military Aid,	571–573
Superintendent of Streets,	425–466
Superintendent of Sewers,	467–521
Treasurer,	757–771
Balance Sheet,	772
Expenditures,	773–902
Water Commissioners,	253–421
Water Registrar,	277–295
Superintendent of Water Works,	297–303
Sanitary Engineer,	305–311
Appendix,	313–421

CITY OFFICERS

FOR 1907.

CITY OFFICERS, 1907.

Mayor—WILLIAM E. SANDERSON.

Aldermen—President, Willis A. Ford; Ward One, Henry N. Bowman; Ward Two, Willis A. Ford; Ward Three, Geo. H. Crouss; Ward Four, Arthur H. Rogers; Ward Five, Alfred F. H. Pillsbury; Ward Six, Frederick S. Ladd; Ward Seven, Fred R. Brown; Ward Eight, Charles S. Potter.

Clerk—Elijah A. Newell.

Common Councilmen—President, Ralph W. Wight; Ward One, Charles Adams, John Henry Curtiss; Ward Two, Geo. C. Connell, Michael J. Scully, John J. Collins; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, Edward P. Butts, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, George D. Chamberlain; Ward Seven, John L. Scott, Edward W. Maynard; Ward Eight, William Addison, Ralph W. Wight, George M. Howe.

Clerk—H. S. Gilbert.

STANDING COMMITTEES OF THE CITY COUNCIL.

COMMITTEES OF THE BOARD OF ALDERMEN.

Enrollment—Aldermen Ladd, Brown, and Crouss.

Elections and Returns—Aldermen Ford, Potter, and Crouss.

Sewers and Drains—Aldermen Ford, Bowman, and Brown.

Ordinances—Aldermen Rogers, Pillsbury, and Brown.

Poles and Wires—Aldermen Potter, Crouss, and Rogers.

Itinerant Vendors' Licenses—The Mayor, Aldermen Rogers and Pillsbury.

State and Military Aid—The Mayor, Aldermen Ladd and Crouss.

COMMITTEES OF THE COMMON COUNCIL.

Ordinances—Councilmen Addison, Maynard, and Curtiss.

Enrollment—Councilmen Howe, Connell, and Mathews.

Elections and Returns—Councilmen Corbin, Mathews, and Connell.

JOINT STANDING COMMITTEES.

Finance—The Mayor, Alderman Potter, the President of the Common Council, and Councilmen Adams and Stacy.

City Property—Aldermen Pillsbury and Bowman, Councilmen Scully, Scott, and Butts.

Fire Department—Aldermen Rogers and Potter, Councilmen Hadd, Addison, and Corbin.

Pauper Department—Aldermen Rogers and Ford, Councilmen Mathews, Howe, and Curtiss.

Lighting Streets—Aldermen Ladd and Potter, Councilmen Dodge, Hadd, and Collins.

Streets and Sidewalks—Aldermen Ford and Rogers, Councilmen Chamberlain, Davis, and Curtiss.

Education—Aldermen Pillsbury and Rogers, Councilmen Maynard, Connell, and Butts.

Printing—The Mayor, the President of the Common Council, and Councilman Davis.

Board on Claims—The Mayor, Alderman Rogers, and the President of the Common Council.

Supervisors of Highways and Bridges—The Mayor, Alderman Ford, and Councilman Davis.

City Clerk—Elijah A. Newell.

Assistant City Clerk—Annie H. Hawkes.

Clerical Assistants—A Gertrude Adams, Bertha B. Fuller, Cora B. Haskell.

City Treasurer—Eliphalet T. Tift.

Treasurer's Deputy—John P. Bishop.

Clerical Assistants—George W. Rice, Jr., Margaret E. McCaughan, Agnes Pope.

Auditor of Accounts—William C. Marsh.

Collector of Taxes—Chas. A. Frazer.

Collector's Clerk—Walter A. Parrish.

Clerical Assistants—Elizabeth H. Clark, Fannie M. Brown, Edward E. Hosmer.

Assessors—George B. Smith, Frank S. Crane, Frank A. Lawton,

Assistant Assessors—Michael F. Kelliher, John Davis, William G. Ryan, Ernest A. Witt, Arthur S. Burt, Charles T. Hudson, Erwin F. Markham, Charles D. Ufford, Howard N. Newell, Fred H. Griswold, Nathan Polancer, and George V. Lovely.

Overseers of the Poor—The Mayor, Dr. Joseph N. Boyer, Jr., O. C. Smith, Edwin S. Stacy, Arthur A. Call.

Agent—Edward I. White.

Clerk and Bookkeeper—Jennie S. Lombard.

Superintendent of Almshouse—Lyman W. Sexton.

City Physician—Dr. Joseph N. Boyer, Jr.

City Solicitor—Stephen S. Taft.

Mayor's Clerk—Helen P. Emery.

City Engineer—Charles M. Slocum.

Assistant Engineer—Walter A. Brown.

City Messenger—Stephen P. Burns.

Assistant Messenger—James H. Lay.

Superintendent of Streets and Sewers—Arthur A. Adams.

Assistant Superintendents—Arthur H. Woodward and Howard O. Buck.

Clerk and Bookkeeper—Miss A. E. Hathaway.

Board of Health—Herbert C. Emerson, M.D., Clerk and Health Physician, Gurdon W. Gordon, Dr. T. F. Rearden.

Agent of the Board of Health—William L. Young.

Clerical Assistant—Grace E. Warren.

Sanitary Inspectors—Jacob R. Sackett and J. Frederick Power.

City Forester—William F. Gale.

Superintendent of Schools—Wilbur F. Gordy.

Superintendent's Clerk—Fred L. Ward.

SCHOOLHOUSE AGENT—Hiram L. Dorman.

SCHOOL COMMITTEE—The Mayor; at large, Edward H. Wilkinson, Ward One, Wayland V. James; Ward Two, George D. Weston; Ward Three, James S. Judd; Ward Four, Leona May Peirce; Ward Five, Esther J. Morgan; Ward Six, Frederick E. Hopkins; Ward Seven, Francis M. Bennitt; Ward Eight, Frank N. Seerley.

TRUANT OFFICER—John G. Taylor.

ASSISTANT TRUANT OFFICER—Harry A. Killmer.

KEEPER OF THE LOCKUP—C. M. Wright.

SEALER OF WEIGHTS AND MEASURES—James L. Bowen.

INSPECTOR OF MILK—Stephen C. Downs.

INSPECTOR OF VINEGAR—Stephen C. Downs.

INSPECTOR OF ANIMALS—Benjamin D. Pierce.

SUPERINTENDENT OF STREET LIGHTS—W. J. Converse.

INSPECTOR OF PETROLEUM—George E. Kimball.

INSPECTOR OF BUILDINGS—Abner P. Leshure.

INSPECTOR OF PLUMBING—Frank W. Tower.

INSPECTOR OF COAL AND COKE—James L. Bowen.

FISH WARDEN—J. J. O'Malley.

WATER COMMISSIONERS—The Mayor, Everett E. Stone, Charles H. Bennett.

SUPERINTENDENT OF WATER WORKS—A. E. Martin.

WATER REGISTRAR—Alfred R. Hathaway.

BOARD OF PUBLIC WORKS—R. Hale Smith, Claudius C. Margerum, Frank G. Tobey.

BOARD OF REGISTRARS OF VOTERS—Orthello K. Merrill, William W. Bartlett, Edward A. Hall, E. A. Newell, clerk.

CLERICAL ASSISTANT—Edith M. Ware.

FIRE COMMISSIONERS—James E. Dunleavy, James W. Kirkham, Henry L. Hines, Napoleon E. Russell, Arthur H. Rogers.

ENGINEERS OF THE FIRE DEPARTMENT—Chief, Willard J. Littlefield; deputy chief, William H. Daggett; first assistant, Joseph A. Stevens; Second,—— —— ——; third and Superintendent of Fire Alarms, S. L. Wheeler.

Park Commissioners—Daniel J. Marsh, Everett H. Barney, William E. Wright, Nathan D. Bill, Herman Buchholz.

Park Superintendent—Charles E. Ladd.

Commissioners of Sinking Funds—Robert O. Morris, A. B. Wallace, A. Willard Damon.

License Commissioners—William C. Hayes, William M. Titus, Charles A. Royce.

New Bridge Commissioners—Edwin F. Lyford, Nathan D. Bill, Everett E. Stone.

River Front Improvement Commission—Nathan D. Bill, Everett E. Stone, N. D. Curtis.

Municipal Building Commission—Mayor, ex officio; Walter H. Wesson, George Dwight Pratt, William G. McKechnie, Willis A. Ford, Ralph W. Wight, George D. Chamberlain.

POLICE DEPARTMENT.

Police Commissioners—The Mayor, James D. Norton, Fred O. Clapp, Ezekiel M. Ezekiel.

City Marshal—George M. Stebbins.

Assistant Marshal—C. M. Wright.

Captain of the Watch—J. J. O'Malley.

Lieutenant—Henry M. Perkins.

Sergeants of Police—D. J. Manning, George H. Norris, John Hall, F. E. Goodwin.

Inspectors—John H. Boyle, William J. Quilty.

Doorman—John H. Dunleavy.

Police Matron—Maria E. Holley.

Clerk—David E. Berggren.

POLICE OFFICERS.

Night and Day Watchmen and Police Officers—Walter J. Ayres, Marshall A. Bellmer, James C. Burke, John F. Bacon, Martin P. Costello, Simon J. Connery, Llewellyn D. Carey, James F. Dagnan, George L. DeForest, John H. Dunleavy, Michael R. Donovan, James J. Donovan, James M. Daly, Michael F. Egan, Solon E. Frissell, Fred W. Garipay, Wm. F. Goldrick, William J. Grady, Alexander Gray, Charles W. Geary, Charles A. Haynes, Timothy J. Hallahan, John L. Harrington, John Hendrickson, Edwin C. Holbrook, Henry C. Hatfield, Ovila L. Huot, William J. Hurley, Calvin W. Jennings, Michael Kennedy, Edgar A. Kirk, Edgar A. Littlefield, Patrick Lynch, Ernest P. Marble, Patrick McCallin, John McCormick, James W. Murtagh, John J. McCarthy, Ward E. Maranville, Patrick H. McDonald, Andrew J. Melaney, John L. Maloney, Thos. Maloney, David H. Newcomb, George W. Neil, Paul O'Brien, Patrick O'Keefe, Michael J. O'Brien, Charles H. O'Connell, Patrick J. O'Connor, Wm. E. O'Connor, Joseph D. Powers, Michael C. Quinlivan, James T. Raiche, Ernest Rosenberg, Thomas Ranney, James Henry Rogers, Melvin H. Ransom, Frederick J. Runnells, William H. Sibley, Albert H. Shaw, John St. Ledger, John P. Sullivan, John A. Swift, Michael F. Sullivan, Frederick L. Thayer, Edward P. Tilton, Daniel J. Twohig, Wm. H. Tobey, Charles A. Wade, Albert F. Ward, John C. Woolley.

RESERVE POLICE FORCE—Edward Carey, Everett B. Bogert, Neal Ferry, Wm. McDougall, Horace G. Clark, Fred E. Jenness, A. L. J. Letendre, Frederick P. Smith, Geo. F. Russell, Joseph A. Murphy, Jas. A. Dowling, J. H. O'Brien, John McNeil, Daniel L. Pepin, Thos. B. Drinan, Clarence E. Bradway, Willard L. Wyman.

SPECIAL OFFICERS—Henry P. Anderton, Andrew Anderson, Dexter A. Atkins, John H. Ash, Floyd G. Brown, Joseph E. Barnes, G. W. Burbank, John H. Barnes, O. B. Brockett, F. E. Burnham, George M. Barker, Thomas H. Benton, Thomas F. Brunton, Geo. Bryce, H. R. Button, Seymour F. Burlingame, Wilbur J. Brassard, G. W. Cooley, Michael J. Crowley, Thomas M. Collins, John P. Cummings, John Carr, O. G. Cash, Robert H. Clark, Charles O. Davis, Daniel D. Denton, A. P. Dart, Walter S. Darrell, George F. Eastman, Loyal F. Friman, F. E. Fountain, S. B. Fisher, Francis P. Flannery, Michael Fogarty, Wm. H. Francis, Harry E. Gibbs, William A. Gaunt, Charles M. Halran, James Henderson, John Hurley, George Harrington, G. A. Harris, Bernard F. Hafey, Alexander Hughes, Charles Hall, Charles Ireland, John J. King, James Kimball, A. E. Keith, Jacob Kaplan, Charlie Kennedy, Michael W. Kennefick, George E. S. Law, John A.

Lynch, Clayton J. Lewis, Noel Lambert, Emerson F. Lovett, Louis A. Lazarus, John B. Laurino, Edward Long, William M. Leitch, George V. McBride, Alexander S. McClean, Patrick Madden, Dwight B. Montague, George F. Maher, Sarkis Mansour, Pasquale Mastriani, George E. McCormick, Austin A. Moulton, M. R. Marsh, Geo. H. Miller, Howard B. Mattoon, Michael M. O'Sullivan, C. W. Peters, M. S. Pixley, Florida D. Plourde, John P. Rohan, Fred E. Ripley, S. F. Rainger, John Robinson, James E. Robbins, Clyde A. Redner, Thos. Randolph, Patrick H. Reavey, Daniel E. Robinson, John W. Smith, Jos. C. Smith, M. F. Stephenson, William Sheehan, O. F. Swift, F. J. Smith, James Sinclair, M. J. Sarsfield, A. Clarke Sargeant, Lewis W. Towne, E. F. Tillson, H. L. Thomas, W. L. Telmosse, George H. Wood, Ernest A. Witt, Edwin S. Witherell, William L. Young.

MAYOR'S ADDRESS.

MAYOR'S INAUGURAL ADDRESS.

Gentlemen of the City Council:

We have assembled this morning for the purpose of assuming our official duties for the municipal year of 1907. We have been sworn to faithfully perform the obligations of the offices to which we have been chosen, and I believe that we are all fully determined to give to the city the very best service that we can possibly render, and that the interests of all the people will be carefully looked after.

I consider it especially fortunate that I am associated with so many members who have gained valuable experience in the City Council in past years, and I look forward to a continuance of the pleasant relations that have existed between us in the service of the city.

It is gratifying to know that our city is prospering, but it is also well to keep constantly in mind the fact that, with a population of 76,500 people, which is steadily increasing, the demands for even necessary expenditures will be large, and we must look well and carefully to the burdens of the taxpayers (who must pay the bills), and see to it that the city gets full value for all money expended.

Let us consider the present condition of the city's finances:—

FINANCES.

CASH TRANSACTIONS.

Cash on hand, December 10, 1905,	$351,213 17	
Total receipts in 1906,	3,101,422 94	
	$3,452,636 11	
Total payments, 1906,		$3,001,203 05
Cash on hand, December 10, 1906,		451,433 06
		$3,452,636 11

In the cash balance of $451,433.06 on hand December 10, 1906, there is available and not appropriated for any purpose the sum of $94,631.23.

BONDED INDEBTEDNESS OF THE CITY.

Total water debt,		$555,000 00
Less sinking funds (including surplus of water debt for 1906),		151,255 09
Net water debt,		$403,744 91
All other indebtedness,	$1,987,900 00	
Less sinking funds,	385,069 70	
Net debt, exclusive of water debt,		1,602,830 30
Total net indebtedness,		$2,006,575 21

AMOUNT OF DEBT CITY CAN INCUR.

2½ per cent of average valuation for three preceding years,	$2,047,702 00
Present net bonded debt (water debt excluded),	1,602,831 00
Leaving debt city can incur,	$444,871 00

During the coming year, $138,200.00 bonded debt matures, $110,000 of which sum will be provided by sinking funds established for that purpose; the balance, $28,200, was issued as serial bonds, and the amount will be included in the annual appropriations.

DEBT MATURING IN 1907.

3½% water bonds, due April 1,...	$40,000 00	
3½% sewer, Rowland avenue (bonds due May 1),...............	35,000 00	
3½% improvement bonds (issued for City Hall rear exits, Ludlow bridge and Water street extension), ...	35,000 00	
Provided for by sinking funds,...		$110,000 00
4% school bonds, due July 1,.....	$4,500 00	
3½% school and miscellaneous bonds, due July 1,.........	12,700 00	
3½% sewer bonds, due August 1,..	2,000 00	
3½% fire and sewer bonds, due September 1, ...	5,000 00	
4% fire department bonds, due November 1, ...	4,000 00	
To be raised by taxation,........		28,200 00
Total, ...		$138,200 00

For further details, reference may be had to the City Treasurer's report.

A municipality depends almost entirely for its source of revenue upon the assessed valuation of the real and personal property owned by its residents.

In this state, both the debt and the tax rate limitations of cities are based upon their valuations. In a growing city, with additional needs and demands in all its departments, you will realize how much depends upon the increase of values in real estate and personal property, subject to taxation.

To illustrate: in the case of our own municipality, with a tax rate of $15 per thousand, every million dollars in taxable valuation adds $15,000 to our revenue.

In 1905, our assessors' total valuation of property, real and personal, was $80,904,476; in 1906, the total valuation was $86,505,181, an increase in one year of $5,600,705.

This increase alone was more than the total valuation of real and personal property in Springfield when it was incorporated as a city in 1852.

Such a growth of taxable values (7%) within our boundaries in one year, sustained by very few abatements being asked for and allowed, indicates the prosperous condition and business growth of our community.

For the first time since 1897, owing to the condition of the money market, and the small demand for high class bonds at low rates of interest, the rate of interest on City of Springfield bonds issued and sold during the year was increased from 3½% to 4% per annum.

In November, the City Treasurer sold $207,000 twenty-year 4% school bonds, receiving a premium that reduced the rate of interest to 3.648% per annum.

We have the satisfaction of knowing that no city in New England has sold its bonds during the past six months on so favorable an interest basis as Springfield. It speaks volumes for the credit and financial standing of our city.

The Department of Commerce and Labor of the Census Bureau at Washington, D. C., issues yearly bulletins, giving statistics of cities of the United States having a population of over 30,000. Bulletin No. 50 for 1904, the last one available, gives a list of 151 cities. In this list the City of Springfield ranks sixtieth in population.

Outside of water debt, the larger proportion of our debt was incurred for school buildings and sites, so that it is interesting and suggestive to note in the comparison table of school debts of cities that, although ranking sixtieth in size, only twenty-one cities have a larger bonded debt for school purposes than Springfield.

The Commonwealth of Massachusetts, the past year, made its settlement with the cities on November 15, instead of December 10, as heretofore, paying over the corporation tax and other credits due the cities, and collecting the state, bank, and other taxes due the state. This early settlement will allow our city to make a much needed change in the date of the closing of the fiscal year, which is now fixed by ordinance on December 10.

With the growth of the city it is fast becoming impossible to carefully approve, audit, and pay all the November department bills during the first ten days of December, in order that a balance for the year may be reached on the books of the city, and the new year opened December 11.

I recommend that you consider immediately the advisability of amending our ordinances, in order that the fiscal year may close on November 30, a date that is in accord with the desire not only of the various chiefs of departments, but also with the recommendation of the uniform municipal accounting branch of the Census Bureau recently established in the State House, Boston.

SCHOOLS.

Our school system is our especial pride, and we may be pardoned a little self-congratulation as we consider its high standing, not only at home but abroad. The recent opening of the Technical High school has been something of a revelation of what can be done along the lines of education embraced in its various departments.

The richest inheritance that we can have is a good education, which tends more than anything else to good, sound government and right living.

I call your especial attention to the report of the School Committee, and suggest its careful perusal.

STREETS.

The condition of our streets compares most favorably with those in other cities, but, in order that these conditions may be maintained, or improved upon, the usual liberal appropriation for their care should be made.

Our main thoroughfares, that are subject to heavy traffic, should receive pavement of a permanent nature, while, in residential sections and cross streets, macadam and surfaces of less expensive character are desirable, care being exercised in their selection according to location.

FIRE DEPARTMENT.

The Fire Department has recently been given added facilities by the purchase of a new aerial ladder of modern construction, and the addition of an Auxiliary Squad, which responds to alarms with a motor wagon with commendable alacrity, and has already proved its great value. This department should be well sustained, and I commend for your careful consideration the report of the Commissioners of the Department.

POLICE DEPARTMENT.

The report of the Police Commissioners will give you the condition of the department under its charge.

During the past year officers have been stationed at the more congested portions of Main street, a plan that has met with the cordial approval of the community generally, and which will undoubtedly be continued.

PAUPER DEPARTMENT.

Care of the needy and unfortunate is something in which we all have an interest, and no one can for a moment object to the relief of the poor. That this department is well managed there can be no doubt, and I invite your especial attention to the excellent condition of the City Almshouse.

PARKS.

The beauty of our parks needs no indorsement from me, and the number of people visiting Forest Park in the summer, and finding there rest and enjoyment of a pure, healthful nature, attests the fact that they appreciate what has been done for them through the good judgment of the Park Commissioners, and the liberality of our large-hearted, public-spirited citizens to make the park one of the most attractive spots within our borders.

CITY LIBRARY.

I cannot refrain from calling your attention to the City Library and the Art Museum, which, next to our public schools, have a far-reaching influence for good. I have no doubt that you will cheerfully accord to the library such an appropriation as may be deemed wise and proper.

WATER SUPPLY.

The City Council of 1906 accepted the Act of the Legislature permitting the taking of Little River for a water supply, and passed an order for the issuing of bonds to the amount of $540,000 towards its development. A good, safe, and abundant water supply is of vital importance to the health and safety of a community, and the city is to be congratulated on the successful and satisfactory solution of its water problem. This question, which has been before the public for so many years, is now settled, and the city has adopted a policy which I believe, in future years, will prove to have been one of wisdom. The work, now outlined by the Water Commissioners, should be carried forward as rapidly as is deemed wise and expedient.

The city has also reached a period where extensive changes in the distributing mains are necessary in order that the best fire protection be given. These will involve considerable expenditures during the next few years which, it is hoped, can be paid for out of the department revenue, and the Water Commissioners now have before them plans which, when completed, will place Springfield in the front rank in this regard.

The details of these changes may be found in the report of the Board of Water Commissioners.

MUNICIPAL BUILDING.

The proposition to erect a municipal building, to take the place of the City Hall, destroyed by fire two years ago, has resulted in the selection of a commission to consider the matter. This commission has recommended the acquirement of a site between Court and Pynchon streets and westerly of the old City Hall location. Whether the plan should be carried out, and when, is before you for consideration, and should receive your early attention.

THE RIVER FRONT.

I now desire to bring before you a matter with which you are somewhat familiar,—and that is, the proposition to improve the river front. This subject has been freely discussed, and should be carefully considered by you, and the local interests involved should be equitably dealt with in the final adjustment of the matter. It is well to bear in mind that upon the ultimate decision rests largely the question of the proposed new bridge across the Connecticut river; the extension of Water street northerly to connect with Fulton street; changes in the passenger station east of Main street; and the extension of Dwight street to Liberty. The contributions of citizens toward the expense of the improvements proposed have been more than generous, and attest their interest in this project.

CONCLUSION.

I have thus briefly stated to you some of the more important matters that will come to your attention during the year, and I wish to remind you that the good name, welfare, and prosperity of the city are in your hands. The people will, as they should, hold us to strict account for all our acts, and we must cheerfully and willingly give our time and attention to the duties before us, and work harmoniously together for the best business interest of the City of Springfield.

REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF SPRINGFIELD,

MASSACHUSETTS.

1906.

SCHOOL COMMITTEE FOR 1906.

FRANCKE W. DICKINSON, Mayor, *ex officio.*

	TERM EXPIRES.
At Large.—JAMES A. BILL, Jr., 66 Dartmouth Street.	Dec. 31, 1906.
Ward 1.—EDWARD H. WILKINSON, 136 Mill Street.	Dec. 31, 1906.
Ward 2.—GEORGE D. WESTON, 70 Main Street.	Dec. 31, 1906.
Ward 3.—JAMES S. JUDD, 60 Mulberry Street.	Dec. 31, 1907.
Ward 4.—LEONA M. PEIRCE, 247 Union Street.	Dec. 31, 1907.
Ward 5.—MRS. NEWTON MORGAN, 7 Lincoln Street.	Dec. 31, 1907.
Ward 6.—FREDERICK E. HOPKINS, 110 Mill Street.	Dec. 31, 1908.
Ward 7.—FRANCIS M. BENNITT, 120 Sumner Avenue.	Dec. 31, 1908.
Ward 8.—FRANK N. SEERLEY, 180 Westford Avenue.	Dec. 31, 1908.

CHAIRMAN,

FRANCKE W. DICKINSON, MAYOR, *ex officio.*

VICE-CHAIRMAN,

EDWARD H. WILKINSON.

SUPERINTENDENT OF SCHOOLS,

WILBUR F. GORDY,

Office, 47 Vernon street. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10 A. M. to 1 P. M.

SECRETARY,

BERTHA M. McCONKEY,

Office, 47 Vernon street. Office hours: School days, from 12.30 to 1.30 P. M.; Saturdays, from 10.30 A. M. to 1 P. M.

CHIEF CLERK,

FRED L. WARD,

Office, 47 Vernon street. Office hours: 8.30 A. M. to 5 P. M.; Saturdays, 8.30 A. M. to 1 P. M.

CLERKS,

EDITH BROWN,
CHARLES A. H. PARKER,
A. LEOTA PINNEY,
ANNA C. MURRAY.

SCHOOLHOUSE AGENT,

HIRAM L. DORMAN,

Office, 47 Vernon street. Office hours: 10.30 to 11.30 A.M. and 4 to 5 P.M.

TRUANT OFFICER,

JOHN G. TAYLOR,
H. A. KILLMER, ASSISTANT,

Office, 47 Vernon street. Office hour, 1 to 2 P. M.

SPECIAL COMMITTEES FOR 1906.

Finance.

THE MAYOR, MR. WILKINSON, and DR. HOPKINS.

Text-Books and Supplies.

DR. HOPKINS, MR. WILKINSON, and DR. SEERLEY.

Accounts.

MR. BILL, DR. BENNITT, and MR. JUDD.

Central High School.

MR. WILKINSON, DR. BENNITT, and MISS PEIRCE.

Technical High School, Evening School of Trades, and Manual Training.

DR. SEERLEY, DR. HOPKINS, and MR. BILL.

Ward One Group of Schools.

Carew street, Brightwood, Jefferson avenue, Armory street, and Chestnut street.

MR. WILKINSON.

Ward Two Group of Schools.

Hooker and Charles street.

DR. WESTON.

Ward Three Group of Schools.

Howard street.

MR. JUDD.

Ward Four Group of Schools.

State street, Worthington street, and School street.

MISS PEIRCE.

Ward Five Group of Schools.

Barrows, Tapley, Strickland, and East Union street.

MRS. MORGAN.

Ward Six Group of Schools.
South Main street and William street.
Dr. HOPKINS.

Ward Seven Group of Schools.
Central street, Forest Park, Alden street, White street, and Eastern avenue.
Dr. BENNITT.

Ward Eight Group of Schools.
Buckingham, Homer street, Indian Orchard Grammar and Primary.
Dr. SEERLEY.

Ungraded Schools.
Mrs. MORGAN, Miss PEIRCE, and Dr. WESTON.

Evening Schools.
Mr. JUDD, Dr. BENNITT, and Mrs. MORGAN.

Kindergartens.
Dr. WESTON, Mrs. MORGAN, and Mr. JUDD.

Penmanship.
Dr. BENNITT, Mr. BILL, and Miss PEIRCE.

Drawing and Draughting.
Dr. WESTON, Dr. SEERLEY, and Miss PEIRCE.

Music.
Miss PEIRCE, Mrs. MORGAN, and Mr. JUDD.

Physical Culture and Hygiene.
Dr. SEERLEY, Dr. HOPKINS, and Dr. WESTON.

Sewing and Cooking.
Mrs. MORGAN, Miss PEIRCE, and Mr. BILL.

Salaries.
Dr. BENNITT, Mr. BILL, and Dr. SEERLEY.

Repairs.
Mr. WILKINSON, Dr. WESTON, and Mrs. MORGAN.

New Buildings.
Dr. HOPKINS, Mr. WILKINSON, and Mr. JUDD.

REPORT OF THE
SCHOOL COMMITTEE.*

To the Citizens of Springfield:—

The Board which you have elected to the serious responsibility of caring for the schools of the city begs to submit the following brief report of some phases of the year's work. Fuller and more detailed information will be found in the reports and statistical tables which follow.

THE TECHNICAL HIGH SCHOOL.

The most epoch-making event during the year 1906 has been the opening of the new Technical High School building—the fruition of the wise planning of that man of vision, Dr. Balliet, for the broad, thorough, and effective training of the youth of Springfield. The following extracts from the report of Principal Warner will be of interest:—

"The year has been one of great changes, the far-reaching consequences of which cannot be fully realized for many years to come. It is perhaps sufficient to call attention to a few facts which are evidences of progress, and suggest the lines on which the continued development of the school may best proceed.

"It is hardly necessary to say that the great expansion of the Technical High School during the past year has been made possible by the completion of the new building on Elliott street, in which the school is now fully established. Though the growth of the school in past years has been rapid, it has nevertheless been held back by the unsatisfactory location and the inadequate quarters. With the removal of such handicaps, the large expansion in the enrollment has come, as was expected. From 223, in 1905, the enrollment has risen to 629, in 1906. Nearly half this number is due to the transfer of the commercial department from the Central High School; but without the 310 pupils enrolled in this department, the increase in the strictly technical part of the school (which has an enrollment of 319, including 36 girls in the new department of household arts) is 43 per cent as against 24 per cent in 1905 and the average of 23.4 per cent of yearly increase in the years previous to 1905. With the improved facilities for scientific and technical work afforded by the new building, and with the better understanding on the part of the public of the character of the program of the school, and of the work of its graduates, a similar increase must be anticipated next year and for many years to come.

---

* Legally "Committee," but according to preference and usage referred to as "School Board."

"The reduction in the per capita cost of maintenance which has been brought about year by year, keeping pace with the growth of the school and the maturing of its organization, has continued during the past year, and amounted to about $13.50. The actual cost of maintenance* per capita due to expenditures by the School Committee alone during the past year amounted to $108.27. If the expenditures per capita authorized by the City Property Committee, which were approximately $26, be added to this figure, the total per capita cost is about $134.50. In this connection it should be noted that the cost of instruction is necessarily somewhat larger than it is in a purely literary high school. In making comparisons with schools having no technical work, the parallel should be drawn between the cost of the academic teaching, setting off by itself the cost of instruction in the mechanic arts. This is the only fair basis of comparison in the case of the Technical High School, because its academic courses are in themselves of equal strength with the courses of the literary high schools. The technical work is added to the ordinary high school program by lengthening the school session one period and by providing a separate group of teachers of mechanical subjects. Compared on the academic basis alone, the per capita cost of the Technical High School will now be found to be not much greater than the average of the best high schools. Furthermore, it should be kept in mind that the past year of unusual changes has involved extraordinary expenses, and the full effect of the increased enrollment in reducing the cost per capita could not appear last year.

---

* Manifestly this does not include the cost of permanent equipment.

"Among the most important expansions in the Technical High School, from the educational point of view, is the new department of household art and science. Hitherto the work of the strictly technical part of the school has been for boys only. The new department opens the school to girls and offers them one of the best educational opportunities to be found anywhere in the state. The course of instruction planned for this department has been laid on the same broad and liberal lines as that for the boys, keeping in mind always the value of the literary studies that have come to be recognized as belonging to high school courses, but at the same time giving a place for the cultural value of practical and scientific work rightly directed towards utilitarian ends. Two courses are offered,—one in which girls may prepare for colleges or other higher institutions and at the same time secure practical training in household arts, and another giving more attention to practical subjects with a good course in general academic studies. The school is particularly fortunate in securing for the head of this department Miss Amy L. Daniels of the University School of Chicago, Ill. The enthusiasm manifested by the girls and the work already accomplished in this department are most promising.

"Of no less importance is the new department of physical training. Mr. August E. Metzdorf has been elected physical director for the high school boys of the city. All his time is required for the work, since it is given to nearly all boys belonging to both the high schools, and includes, in addition to the regular gymnasium practice, direct supervision of the outdoor sports. The physical training for the girls of the Technical High School is carried on at the Central High School under the direction of Miss Helen M. McKinstry.

"The policy of maintaining a strong academic course without unduly sacrificing the work on the practical side, which of course must remain a distinguishing feature of the school, was adopted at the outset. It is hardly necessary to urge this now as a consistent policy to be followed. The wisdom of the course has been demonstrated by the success of the school. Furthermore, the tendency in other schools of similar character is to strengthen their course along academic lines.

"The place which the Technical High School is destined to fill in the educational system of Springfield, speaking of the technical rather than the commercial branches, is further shown by the occupations of its graduates:—

32.7%	prepared for technical or scientific colleges;
18.2%	became draftsmen;
14.6%	engaged in scientific occupations;
10.9%	engaged in business or professional occupations involving knowledge of mechanical appliances;
9.1%	entered some mechanical trade; and
14.5%	engaged in occupations for which the school training was of general rather than of special value."

THE CENTRAL HIGH SCHOOL.

The transfer of the Commercial Department from the Central to the Technical High School has temporarily relieved the congestion in the former building, and removed the necessity for an afternoon session. The advantages of one session are already manifested in better discipline and in an improved spirit of unity. School loyalty is not fostered by a separate session for any one class.

The frequent assertion that this is a practical age is exemplified in the tendency of high school instruction as regards both method and material. The course in first-year Science is arranged to emphasize the connection between theory and practice in such different phases as the city department of water and the safeguarding of the public health, household industry, and the various manufactories of our city. Health in the home and in the community is correlated with the course in Physiology and Hygiene. The teaching of the modern languages aims to give pupils a working knowledge of the languages, whether oral or written. In History the record of past events is presented in a way to arouse keen interest in civil, political, and social aspects of our modern life. An excellent example of the combination of the practical and the ideal is furnished by the method of instruction in freehand drawing. Pupils of high school age are naturally eager to do something concrete; this tendency finds its natural expression in sketching, water color work, and design. Then the test of practicability is applied by actual construction in wood, leather, and metal. Not infrequently a more or less elaborate design is much simplified during the process of construction. Simultaneously with this training, puipls are taught the appreciation of the highest and best in art.

September witnessed a new departure in the establishment of a physical culture department for high school girls. The measurements which were made during the autumn demonstrated two things: First, that excellent results had been obtained by the work in the grammar grades. Second, that the high school work had been postponed too long, for the freshmen gave the best returns and the seniors the poorest, the deterioration being gradual from year to year. It was found that in the more advanced classes there was a lack of physical vigor, and that the muscular development was poor, particularly in the trunk; this resulted in indolent breathing and in a lowering of the functional activities of the body. Many of these faults may be remedied by the work in the gymnasium, which includes regular exercises, games and plays; although its equipment is far from adequate, and by the walks and tramps which are arranged for the pleasant weather. The influence and example of Miss McKinstry are sure to be a potent influence in raising the physical tone of the girls.

The ideal for education is symmetry; training along social lines should not be overlooked. The class organizations, the literary and debating societies, the musical clubs, and athletic teams furnish opportunities for development in initiative, organizing ability, capacity in working with others, and for those possessing special talents in music, debate, and literary work. The interest and co-operation of parents in these matters are most helpful in keeping the forms of entertainment within simple, inexpensive lines, which shall conserve rather than drain the energies of the boys and girls while they furnish a natural and desirable development to our young people. In these ways the spirit of unity in the school is fostered and its influence in the community is enhanced.

EVENING SCHOOLS.

The record of the evening schools is particularly gratifying. Last year the experiment of two evening grammar schools was necessitated by the demolition of the east half of the Elm Street School building. All applicants who resided north of the Boston and Albany railroad tracks were sent to the Chestnut Street School; those south, to Elm Street, and later to Howard Street. It was feared that the removal of the evening school south of State street would affect the attendance unfavorably, but this has been more than counterbalanced by the attractiveness of the new building. The fine, cheery schoolhouses, well warmed and lighted, have proved so inviting that the attendance at Howard Street has nearly doubled, and at Chestnut Street the increase has been more than 100 per cent. When the influence of these schools on our citizenship is considered, the wisdom of the experiment is demonstrated. In this connection it is well to note that the teaching staff is of an unusually high order.

The completion of the new Technical High School rendered possible the transfer to that building of the Evening High School. As the Evening School of Trades necessitated the heating and lighting of a portion of the Technical High School, the change was made in the interest of economy. The use of the Central High School hall for entertainments had always been a source of interruption and annoyance to the Evening High School. The decision of the City Property Committee to refuse to rent the Technical High School hall on the nights of the evening school is wise.

THE EVENING SCHOOL OF TRADES.

The following report of this most practical phase of the city's educational system is furnished by Principal Warner:—

"The large and regular attendance at the school is evidence that it continues to meet the needs of those who join the various classes. The school has attracted very wide attention because it was the first trade school in the country to be supported at public expense. Other cities are following the example of Springfield,—notably Cambridge and Philadelphia,—and similar schools are under consideration if not already started elsewhere. The Commission on Industrial and Technical Education, appointed by Governor Douglas, in its report called attention to the existence of the school and to the valuable work it was doing for the mechanics of Springfield. This commission published a description of the school and some statistics which were supplied them. The latter will bear repeating in this report as showing the purpose of the men in entering the school, and the benefit received as measured in advanced wages:—

	Mathematics.	Machine Shop.	Mechanical Drawing.	Wood Work.	Plumbing.
No. of replies received,	18	28	22	8	4
Purpose in entering the school:					
1. Increased experience,	10	17	14	2	3
2. Advanced classification,	13	20	17	5	2
3. Change of occupation,	1	22	6	5	1
4. Advance in wages,	9	25	13	4	2
5. Other reasons,	3	2	6	3	2
No. receiving direct benefit from instruction in the school,	18	28	22	8	4
Greatest increase in wages (per day),	$1.25	$2.00	$2.00	$0.50	$2.00
Least increase in wages (per day),	.25	.25	.25	.30	1.50
Average increase in wages (per day),	.68	.88	1.12	.45	1.75
Age limits (years),	19-39	19-40	18-42	17-37	21-28
Average age (years),	27	27	28	24	25

"From this report it appears that every man who answered the inquiries acknowledged that he had obtained direct benefit from the instruction which he had received in the school. It would, of course, be expected that he would receive the benefit of instruction, but the increased knowledge or skill was invariably recognized in increased wages. Not one of those who answered the inquiries had failed to receive an increase; six had received an increase of $2 per day; five, $1.25; while the average increase in all classes was no inconsiderable sum. I have no doubt that a more extended inquiry among the 500 men who have attended this school, if it had been possible to make it, would sustain the inference that must be made from the replies of these 80 men.

"The general policy of the school has from the first been to receive as members those who have had some experience in the trades represented in the school. There are, however, necessarily some variations from this policy, particularly in the classes in mechanical drawing, electricity, and mathematics, which offer a more general training useful in many trades. It should be noted also that during the present season a larger number of plumbers' apprentices than usual have applied for instruction in plumbing. But notwithstanding these facts, the school maintains the character of a shop continuation school, which it has had from the first. Some recent statistics, including the entire enrollment of the present term, and covering this point, follow:—

	Machine Shop.	Mechanical Drawing.	Plumbing.	Wood Working.	Electricity.
Experience in trade taught:—					
1. None, ...	16		16	9	16
2. Less than 1 year, . .	19		6	2	15
3. 1 to 2 years, . . .	12	2	13	5	1
4. 2 to 3 years, . . .	19		8	4	
5. Over 3 years, . . .	42	2	4		1
Experience in other employment,	77	96	21	9	18
Reasons for taking course:					
To improve knowledge of trade,	83	4	28	8	12
To learn trade, . . .	16	8	14	8	15
To gain general advantage. .	11	88	4	4	7"

SEWING AND COOKING.

Instruction in sewing is given in grades V and VI, in grade VII girls are taught cooking by a specially trained teacher, sewing is taught in grade VIII, while in grade IX food values and the scientific principles of cookery are taught. This alternation of subjects was devised to enable those children who are obliged to leave school at an early age to gain an elementary knowledge of both cooking and sewing. The last year has witnessed the completion of the change from the group to the individual system in the cooking classes. The recipes are so divided that each girl prepares a very small portion, but for that portion she alone is absolutely responsible. The change has been a decided improvement.

The increase in the size of the classes at the State Street Grammar School necessitated the fitting up of the dining room as an additional kitchen nearly two years ago. The City Property Committee are now equipping an unused room on the third floor for a combined dining and sewing room. The increase in accommodation was urgently needed. The policy of securing teachers trained to teach both sewing and cooking has proved economical and advantageous.

BATHS.

Baths are maintained at five of the schoolhouses, and seem to be growing in popularity. During last year the total number of baths given was 38,387. The figures during November, the last return available, are as follows:—

Armory Street,	average	per	week,	200
Chestnut Street,	"	"	"	170
Hooker,	"	"	"	262
William Street,	"	"	"	248
Worthington Street,	"	"	"	250

At this rate the number of baths given during the year would total over 45,000. Teachers bear witness to the moral effect of the baths in increasing the self-respect of the children.

KINDERGARTENS.

Fourteen public kindergartens are maintained by the city, with an enrollment of 705. The age of the children is from four to five years. The two kindergartens at Indian Orchard are taught by one corps of teachers, the morning session being at one building and the afternoon at the other. The policy of the School Board has been to establish the kindergartens where the need was the most urgent; no new kindergartens have been opened in the well-to-do residence sections. The Worthington street district is sorely in need of a kindergarten, but there is absolutely no space for one in the present crowded condition of that building. Some provision for this need should be devised in the near future.

NEW BUILDINGS AND SITES.

The School Board takes pleasure in noting the various changes which the year has brought in the matter of new buildings and lots, although the City Property Committee has entire charge and control of this portion of the educational equipment.

The new Technical High School has already been mentioned. The purchase of the Elm street lot by Hampden County for the new Hall of Records resulted in much inconvenience early in the year, but the new Howard street building was occupied on Washington's Birthday. This structure contains thirteen rooms and a kindergarten, and is located on a commodious lot which allows ample space for a playground. The entire expense was met by the proceeds of the sale of the Elm street property, and was a most fortunate transaction for the city.

A ten-room addition to the Armory Street building is already commenced. If the weather allows the construction to continue steadily, it is hoped that the enlargement will be ready for occupancy in September.

The fitting up of the new rooms on the third floor at Chestnut Street has served to emphasize the need, and an adjoining lot of nearly two acres has been purchased. This provides space for a fine large playground. Plans have already been accepted for an addition to contain eleven rooms beside manual training rooms on the third floor. This is the first Grammar School building where the rooms used for this branch would compare at all favorably with the ordinary class rooms. The architecture is to be in harmony with the main building, and bids have already been advertised for.

The rapid growth of the school population in the northern section of the city has necessitated the purchase of a lot 250 feet square on North street between Harriet and Cumberland streets. This area of nearly an acre and a half will furnish space for a primary school, and that most desirable adjunct—a playground.

The difficult problem of a six-grade school in a four-room building at School street has the promise of a satisfactory solution in the purchase of the Tinkham lot for an addition.

Land has also been secured on the south side of Sumner avenue near Long Hill street for the erection of a primary school. This location is advantageous for the children living at the west end of the Forest Park district.

The city was most fortunate in the purchase of a lot adjacent to the Central Street School. A dwelling house returns an income on the investment, while the remainder of the plot has been designated the Brookings Playground; it relieves a serious need in that locality. The policy of purchasing lots of sufficient area to provide suitable playgrounds is one that deserves encouragement. The conditions at South Main street and at the State Street Grammar School are a sufficient commentary on the opposite course.

THE ADMINISTRATION BUILDING.

The School Board wishes to express its appreciation of the improvements made in the Administration building by the City Property Committee during the summer vacation. The first floor and stairway were done over; the former dingy, depressing appearance has given place to more hygienic and tasteful surroundings.

INCREASE IN POPULATION.

The problem of providing educational facilities for the youth of our city is one which requires wise forethought. In this connection a study of past conditions may not be amiss in shaping future policy. The school enrollment in 1852, the year of the city's organization, was 2,270; in 1869 the enrollment had practically doubled, a period of 17 years; trebled in 1892, 23 years; quadrupled in 1897, five years; and quintupled in 1901, four years. The average annual increase in school enrollment during the last ten years is 486, the equivalent of a twelve-room building each year.

The figures for high school enrollment are no less instructive. The number enrolled in 1852 was 158; this doubled in 1876, trebled in 1894, quadrupled in 1899, quintupled in 1901, and sextupled in 1904. The increase in high school enrollment between the years 1898, when the Central High School was opened, and the opening of the new Technical High School, was 668; the enrollment at the two high schools is now 1,330; the average annual increase for the past ten years has been 80.

The question of providing suitable space for the school department in the new Municipal Building has been raised. Commencing with 1850 the census returns show that the population has doubled in periods of less than twenty-five years: the first period was from 1850 to 1865, 15 years; the second, 1865 to 1890, 25 years. The recent rate of growth indicates that the population will have doubled again shortly after 1910, which gives the periods as 15, 25, and 20+ years. The same rate of increase would give a population of over 290,000 in 1950. Although time may prove these figures to have been excessive, they yet emphasize the need for great care in forecasting the municipal requirements.

FINANCES.

The School Board realizes that the bill for education constitutes an important item each year in the city's budget. The attitude of the taxpayers towards the schools has been liberal, and it has been rewarded by the excellent reputation of Springfield schools throughout the country—a matter in which the community justly takes pride. The customary standards of efficiency cannot be properly advanced or even maintained by any policy of curtailment. The estimates of the Board for the year 1906 were seriously cut by the city government; the proper maintenance of the schools demanded a supplementary appropriation before the close of the fiscal year.

TEACHERS' SALARIES.

The low salaries paid to the teaching profession throughout the country in comparison with the financial returns in other occupations requiring an equal or an inferior preparation, is resulting in a sure deterioration in the rank and file of teachers. Young people of aspiration are not attracted to a calling which is becoming notorious for its hard work and low pay. Several years ago Professor Hugo Münsterberg of Harvard, in his book on "American Traits," sounded a true note of warning in this regard. Each year the city loses valued teachers through inability to pay the required salary. The loss to the schools is twofold: First, the loss of efficiency necessary during any period of adjustment. Second, the time which the Superintendent must spend in searching for new candidates—time which would be of great value in strengthening the effectiveness of our schools. Adequate, commodious, and hygienic school buildings must be provided. They need not be expensive. The vital element is the one which is of paramount importance in influencing the development of children and youth. The education of the next generation of citizens is the most important function which the city as a municipality performs.

RETIREMENT OF MR. ELIAS BROOKINGS.

At the meeting of the School Board on December 29, 1905, a committee was appointed to draw up and send to Mr. Brookings a memorial expressing appreciation of his long and effective service in the Springfield schools. Mr. Brookings had been connected with our schools more than thirty-five years, and his death on August 3 closed a life which had been a source of inspiration to a considerable number of our citizens.

RETIRING MEMBERS.

The close of the year brings but one change in the personnel of the School Board, although not all of the members will serve in their former capacity. Mr. Edward H. Wilkinson has faithfully and efficiently served Ward One for five years, and has been vice-chairman of the Board for three years. The transfer of his residence to Ward Six required a change, and Mr. Wayland V. James has been elected to represent Ward One.

The member-at-large, Mr. James A. Bill, Jr., has been most liberal in the devotion of his time to the needs of the schools. He has rendered careful and painstaking service on the several important committees of which he has been a member. Mr. Edward H. Wilkinson has been elected as member-at-large.

Respectfully submitted for the Board,

LEONA MAY PEIRCE.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS.

To the School Committee:—

In accordance with the requirements of the Rules and Regulations of your Committee, I have the honor to present to you my report of the schools for the current year.

MODERN SOCIAL NEEDS AND CONDITIONS.

Before discussing the work of our schools, a brief introductory statement should be made to explain the point of view from which such work is done. As is well known, schooling does not include all of education. Education is a vital process. It is the result of all the forces and influences that modify and develop the individual and fit him for a happy and efficient life. According to this definition, the school furnishes only a part of the training needed by the individual for useful and contented living in association with his fellows.

Two noteworthy changes in social needs and conditions, brought about in the last half century, are the transfer of a large number of people from the country to the city, and a simultaneous transfer of many industries from the home to the shop and the factory. The social and educational result of these transfers has been far-reaching.

In the simple home life which the country offered years ago, young people learned to do many things and develop considerable manual skill. In fact, some of the best education the country boy and girl received before the middle of the last century was undirected. They shared in the life of the home and of the community, and felt responsible for duties they cheerfully rendered in coöperating with others. They engaged in daily tasks that called forth their motor activities; they found means of expressing their individuality; they learned to take initiative.

But the mental and moral training which was formerly the natural outcome of rural life now finds little place in the average city home. Children are forced to take a passive and receptive attitude, which robs them of the best opportunities for physical, intellectual, and moral growth. It is not their fault. It is the fault of the artificial conditions surrounding their lives, and these conditions are worse in the homes of wealth and luxury than they are among the people of moderate income.

These facts are suggestive. They indicate a deep-felt need, and explain important changes now going on in the work of the school. They emphasize the necessity for motor training and the value of manual training, sewing, and cooking in the elementary grades. They also interpret the significance of the shop work for boys and the household arts for girls in our Technical High School. Upon the completion of the new Technical High School building, so admirably equipped for the large work it is to do, the taxpayers, citizens, and parents of Springfield are to be congratulated, and to my predecessor, Dr. Thomas M. Balliet, much credit is due for the far-seeing wisdom and untiring energy which characterized his efforts in behalf of this school.

THE TECHNICAL HIGH SCHOOL.

The work done in this building has a great practical utility. The main purpose of the school is not to emphasize vocational training. It does not send out skilled mechanics from its shops or finished dressmakers from its department of household arts. But it does give the boys some insight into the fundamental facts, principles, and processes of many trades, and the girls intelligent conceptions of the proper care and direction of a well regulated home.

In the department of household arts, the work of which began last September, the school teaches the scientific principles underlying the art of home making. It prepares the future home maker for so managing the home as to make it a place of comfort, health, and happiness and in so doing to minister to the productive and social efficiency of every member of the household. By giving the ability to apply scientific principles to the selection, preparation, and care of food, the department of household arts, from an economic and hygienic point of view, would justify its existence. Yet this is only a small part of its practical work.

In its own distinctive field, the Technical High School is doing an educational work of much value, Most adolescent boys and girls long for an opportunity to exercise their physical activities. They have grown tired of absorbing facts from pages of books or through the literary instruction of teachers. They desire to use their motor powers in creating something— in expressing their individuality through some form of handwork. Opportunities for such expression the school abundantly furnishes.

Moreover, in applying the principles of drawing, mathematics, and science to the work in shops and in household arts the pupils come into close contact with realities. Through this application a vital meaning is given to the work such as rarely comes to the average boy or girl from academic study, and this sense of reality enriches the entire school life. It does more than this. It often gives a new stimulus to the non-bookish boy because it affords him an opportunity to reveal to his classmates a sort of ability that the recitation room does not bring out.

But the school does not lose sight of cultural values. Although it makes no attempt to specialize, yet in its aim to train all the powers of the individual, to furnish him the elements of culture and the primary ideas underlying civilization, it offers effective courses in language, literature, history, and mathematics.

Culture, however, means more than getting some conceptions of the best racial thought and achievement. It means broadening the sympathies and acquainting the learner with many lines of work outside of his chosen vocation. It means giving him a many-sided interest in life and developing in him the coöperative temper. In laying stress upon the value and dignity of the artisan's work, in furnishing clear ideas of the operation of industrial forces and of the vital relations existing between capital and labor, this school gives the individual a truer sense of his economic opportunities and obligations and of his responsibilities as a citizen and as a man. For it must be remembered that there is a close affinity between economic and political problems. Most of the political questions of to-day—whether municipal, state, or national—are essentially economic.

In the light of these facts, I need not add that the work of the Technical High School has a truly ethical and social purpose. It does benefit the individual and the community by developing some technical power. But it concentrates its efforts not so much upon increasing productive efficiency as upon sending out young men and women ready to use their energies and their intelligence for the public good. In this training there is steadily kept in mind the great thought expressed in the words, "The life is more than meat and the body than raiment."

DRAWING.

An indispensable feature of the Technical High School work is the mechanical drawing, which has been brought to a high state of excellence. For practical reasons, drawing has become an important branch of study in both elementary and high school grades. It is a commonplace to say, in behalf of its educational value, that it trains the eye and the hand, that it helps to develop a better sense of form and of proportion, and that it gives the power of expressing thought in graphic language. As applied design, it is serving a useful purpose in the art department of the Central High School, where it has rightly attracted much attention, and also in the technical work of both the boys and the girls in the Technical High School.

Work in applied design, however, has not only a practical but an artistic value. Although in our public schools we need not look for much originality in art production, we may at times find a creative touch in a good design. But the best results in drawing will come in developing art appreciation. Many boys and girls may be trained to a fine perception of the beautiful in form and color both in nature and in art. They may be taught to appreciate harmony of color just as in music they may be taught to enjoy harmony of tone. It is in its æsthetic training quite as much as in its practical bearings that drawing is doing a real service for the community.

MUSICAL INTERPRETATION IN THE CENTRAL HIGH SCHOOL.

As has just been hinted, another form of training in art appreciation may be furnished in music. The course in musical interpretation in the Central High School is invaluable as a means of developing a discriminating taste for the finest and best in the musical world. It is significant of the growing interest in this work that the classes are larger this year than ever before.

SCIENCE IN THE CENTRAL HIGH SCHOOL.

The arrangement of the laboratories in the Central High School and the work in science done there are worthy of special mention. Talking about science or studying the facts of science, without making experiments in the laboratory, are of little value to high school boys and girls. They are interested in life, in action, in the practical everyday world surrounding them, and therefore scientific abstractions appeal to them but little. For these reasons, an attempt is made in all the work in science to lead the pupils to understand the application of scientific principles to the mechanical adjustments of the home, of the school, of the various public utilities of the city, and of some of the typical industries of the community.

This method of approach may be illustrated by reference to some experiments that are performed in the first year of the course. These involve water tests, filters, high school ventilation, electric bells and wiring problems, the reading of water and gas meters, the Springfield water supply, home heating by furnace and steam, hot water supply in the home, the refrigerator, the kerosene lamp, kerosene and gas stoves, and home ventilation and plumbing.

But the concreteness of the work finds a still larger application. The teachers take groups of boys and girls to many points of interest, some of which are as follows: The Springfield Provision Company, a paper mill, the gas house, a cotton mill, the Electric Light Plant, a cold storage company, the Armory, the Knox Automobile Company, an iron foundry, the Wason Car shops, the reservoirs, and the wireless station.

Such work is practical, not only because it commands the interest of the pupil, but because it develops his power of insight and gives him a larger knowledge of his scientific environment. It also furnishes good preparation for the study of the more difficult phases of science that come in the later years of the course.

PHYSICAL CULTURE IN THE TWO HIGH SCHOOLS.

Another valuable phase of school life is to be found in physical culture. For some years this work, which includes plays and games and athletics, has been successfully carried on in all the elementary grades and with the boys in some of the classes in the Central High School. But not until this year has it been extended so as to include both boys and girls in all the classes of each high school. This extension signifies educational progress. The enthusiasm displayed by both the boys and the girls indicates their interest and their appreciation. It is especially gratifying that the high school girls are getting the benefits of this training, which means so much for a healthful adolescence and a vigorous womanhood.

THE CENTRAL STREET SCHOOL PLAYGROUND.

The enlargement which has been made this year in the playground at the Central Street School deserves special commendation. Such an increased opportunity for the children to play means not only stronger bodies but better work in school and better service to the community in later years. Every school will yield the city a larger return for having suitable playgrounds. Of course they will cost money, but in view of the better manhood and womanhood they help to develop, it may well be asked, can Springfield afford not to have them? I believe the time will soon come when they will be regarded as a public necessity.

SPELLING.

I note with satisfaction the adoption, during the year, of a new spelling book for the use of grades V to IX inclusive. In work with young children, where the spelling is confined to a comparatively small vocabulary of simple words, no text-book is needed. But in the grades just named, where the spelling vocabulary has a much wider range, there are two reasons for using a good, practical spelling book, containing well selected lists of words. The first is that it takes too much of the teacher's time to make out all the lists of words for the spelling exercises, and the second that some important common words are likely to be omitted from such lists. Ideal lists of words for spelling lessons would grow out of the daily work in the various branches taught. For pupils learn to spell mainly because they will need to use the words in their written expression of thought. To teach them to spell words which they will not use in written exercises in school and are never likely to use in any form of written thought in their adult life, is to waste time.

The teaching of spelling to-day differs from the teaching of spelling years ago because to a large extent it leaves out of consideration the very difficult and uncommon words that the pupil is never likely to use. This is a distinct advantage, because it gives more time for drill upon the everyday words.

ARITHMETIC.

The work in arithmetic has been materially strengthened by the adoption during the year of text-books that are in line with the most advanced educational thought as to the best methods and means of teaching this subject in primary and grammar grades.

There are two reasons why arithmetic has long been held in high esteem. In the first place it affords a certain kind of mental discipline, and in the second it is practical. But the introduction into the school in later years of many studies that are indispensable to the proper training of the young of to-day makes it necessary to give less time to arithmetic than was given when the course of study was simple. Moreover, business methods have changed quite as much as has the course of instruction.

These statements mean that we must simplify the work in arithmetic by cutting out topics that furnish little or nothing but mental discipline, and also those which have no use in solving modern business problems. The teaching of such topics, for instance, as compound proportion, partnership, cube root, equation of payments, difficult problems in complex and compound fractions, and long reductions in compound numbers, can no longer be justified.

The omission of non-essentials will give time for thorough drill in the elementary principles and processes of arithmetic. Such fundamental operations as are involved in addition, subtraction, multiplication, division, in common and decimal fractions, in comparatively simple work with compound numbers, and in the practical applications of percentage to the affairs of ordinary human experience should be thoroughly mastered. Unerring accuracy and reasonable speed in mechanical work with numbers should be sought. The business world has a right to expect such results, but the school cannot secure them without giving a large amount of formal drill to elementary facts and processes, and a still larger amount of effort to the practical application of elementary principles to the affairs of everyday life.

TEACHERS' SALARIES.

The school, like all other forms of social organization, is more complicated than ever before. This is true, also, of the course of instruction, which is intended to organize and embody in pedagogic form the typical facts of human experience. It is needless to say that the efficiency of any school system will depend to a considerable degree upon the character of its organization and of its course of study. But it should be equally needless to add that the organization and the course of study must be alike barren and futile unless the teacher has a vitalizing power to reveal and interpret to the pupil what the course of study represents.

This power calls for mental ability and scholarly training. A narrow range of mental vision no longer satisfies the demands made upon the modern teacher. Thorough preparation, needed even in the elementary grades, can be secured only by taking a full high school course, to be followed by two or three years' training, on the professional side, in a normal school. So exacting, in fact, have become the demands for a wider outlook upon the life and work of the world that of late college graduates have been more and more sought even for the elementary schools, especially for the upper grammar grades. There are many college graduates among the teachers of the primary and grammar schools of Springfield.

Such an extended preparation is expensive, but it is only one of the expensive elements that are essential conditions of successful teaching. Teachers are expected to dress well and to maintain a standard of living that is in keeping with their natural social status. They are expected—and should be expected—to keep abreast of the times, and to continue their growth along both professional and cultural lines. This means reading books and magazines, attending educational conventions, teachers' institutes, and summer schools, all of which involve the spending of money. Moreover, the increasing complexity and difficulty of teaching involve great nervous strain, which is all the more significant because the most successful teachers are by nature sensitive and sympathetic. In order to maintain a high standard of work they must safeguard their health, and to do this they should be able to live in comfort and have reasonable opportunities for rest and recreation.

Another item of expense is travel, which serves not only as a higher form of recreation, but as a means of extending the teacher's first-hand acquaintance with what is best worth knowing in this and other countries. The culture that comes from travel will give an appreciably larger value to any teacher's influence over young people.

The higher standards of preparation and efficiency have prevented many men and women from seeking employment in the teaching profession. They have chosen their callings where the work involves less wear and tear on the nerves and the remuneration is equally good.

With these facts in view, it is not surprising that school boards find it more and more difficult to secure able teachers. The demand for such is so pressing that many cities have been obliged in recent years to make a substantial increase in teachers' salaries.

This is only a simple illustration of the law of supply and demand. But another and equally natural and good reason for increasing teachers' salaries is the increase in the cost of living. A committee was recently appointed to investigate conditions affecting the salaries of teachers in Middlesex County, Massachusetts. According to this committee's report, during the past ten years the average increase in the cost of living for the teachers in eleven cities of that county has been 19.6 per cent, and for eleven typical towns, 18.9 per cent. Of course no such investigation is likely to secure exact figures. As one of the leading economists in New England has recently said, "It is exceedingly difficult to verify this matter by statistics." But he added, "The general impression is that there has been an increase of from fifteen to twenty per cent in the cost of living during the last ten years." If the cost of living is 20 per cent higher now than it was ten years ago, it follows that a $600 salary in 1906 has no higher purchasing value than a $500 salary had in 1896. In other words, $600 in 1906 is equal to $500 in 1896; or, putting it still another way, $600 had, in 1896, as large a purchasing value as $720 has now. If it is argued that the cost of living is not more than 15 per cent higher than it was ten years ago the figures just given will of course vary accordingly. On such a supposition a $600 salary in 1896 had the same purchasing value as a salary of $690 has to-day.

Such being true, salaries in Springfield, which have remained to a large extent nominally the same for the past ten years, have in reality been considerably reduced.

Both professional and economic conditions, therefore, seem to make it inevitable, in the interests of the highest efficiency of the schools, to increase teachers' salaries. Such increase, let me urge, is not for the advantage of the teachers half so much as it is for the advantage of the children. The young people of Springfield will receive the benefit, and through them the parents, and citizens, and taxpayers of the city. Believing this to be true, I feel it my duty to bring these facts to the attention of the people, in order that they may understand some of the essential conditions which control the character of the teaching force.

I need not add that an increase in teachers' salaries means an increase in the cost of the School Department. Nor is it necessary to admit that the schools cost far more now, in proportion to the population, than they did thirty, forty, or fifty years ago. They do, and the same is true for the Fire Department, the Street Department, and the Police Department. Excellent schools, like every other form of excellent municipal service, are expensive, but they are undoubtedly and admittedly one of the best assets of the city, and unless I mistake the civic spirit in Springfield they will receive the financial support that is necessary to maintain the high standard of work for which they have so long enjoyed an enviable reputation.

In conclusion, I wish to express my appreciation of the generous attitude of the people toward their schools, and to thank you, individually and collectively, for the unfailing courtesy and consideration you have shown me in our work together during the past year.

Respectfully submitted,

WILBUR F. GORDY,
Superintendent of Schools.

STATISTICS

ACCOMPANYING

Superintendent's Report.

FINANCIAL STATEMENT

FOR THE FISCAL YEAR ENDING DECEMBER 10, 1906.

Valuation of the city, 1906, . . .		$86,505,181 00
Value of school buildings, land, and furniture, ...	$2,502,854 17	
Value of books, supplies, and apparatus,	92,099 07	
Kindergarten equipment and supplies, .	2,809 77	
Technical High School equipment and materials, ...	23,227 66	
Cooking School equipment and supplies,	2,346 75	
Tools and furniture in hands of Schoolhouse Agent, ...	488 78	
Janitors' supplies in hands of Schoolhouse Agent, ...	298 74	
Fuel on hand, ...	5,300 00	
Total value of school property, .		$2,629,424 94

ORDINARY SCHOOLS.

Appropriation,	. . . . . .	$300,000 00	
Transfer,	. . . .	8,500 00	
Receipts:	Tuition from non-resident pupils, ...	5,151 50	
	Tuition of State minor charity wards, ...	220 50	
	Old books, packing-cases, and materials sold, etc., . .	155 75	
	Fines for books and materials destroyed, ...	27 35	
	Money advanced for office expenses, ...	100 00	
			$314,155 10

Expenditures, as below,	$310,348 29	
Transfer to Technical High School,	3,175 00	
Return of money advanced for office expenses,	100 00	
Balance unexpended,	531 81	
		$314,155 10

EXPENDITURES.

SALARIES.

Day school teachers,	$249,081 47	
Evening school teachers,	10,855 00	
		$259,936 47
Superintendent,	$4,000 00	
Superintendent's clerk,	1,500 00	
Clerical assistants,	1,881 30	
Truant officer,	1,200 00	
Truant officer's assistant,	708 37	
High School principal's clerk,	750 00	
Extra clerical assistance at High School,	9 12	
Clerical assistance at Evening High School,	100 50	
Clerical assistance at Evening Primary and Grammar School,	4 00	
Clerk School Committee,	100 00	
		$10,253 29

BOOKS, ETC.

Regular text-books,	$12,007 95	
Supplementary text-books,	587 29	
Tracing and writing copies,	791 25	
Book covers and book mending materials,	872 17	
Binding books,	543 88	
Reference books,	134 64	
		$14,937 18

PAPER, ETC.

Writing paper,	$2,914 77	
Manilla practice paper,	518 26	
Typewriter paper,	121 00	
Drawing paper,	539 19	
Notebooks and spelling blanks,	870 21	
Blotting paper,	68 75	
Amounts carried forward,	$5,032 18	$285,126 94

Amounts brought forward,	$5,032 18	$285,126 94
Envelopes,	207 60	
Tracing paper,	194 13	
Bookkeeping paper and blank books,	487 55	
Pressboard and cardboard,	221 89	
Miscellaneous paper supplies,	259 41	
		$6,402 76

MISCELLANEOUS SUPPLIES.

Ink,	$152 35	
Paste, mucilage, and glue,	125 55	
Pens and holders,	468 57	
Lead pencils,	606 20	
Drawing pencils and charcoal,	88 28	
Colored drawing crayons,	158 10	
Drawing ink,	18 31	
Water color paints,	311 99	
Paint pans, cups, and brushes,	61 17	
Miscellaneous drawing supplies,	31 56	
Thumb tacks and paper fasteners,	123 70	
Rubber erasers,	114 75	
Crayon,	41 00	
Blackboard erasers,	24 10	
Sponges,	263 48	
Rules,	62 50	
Miscellaneous supplies,	164 81	
Hygiene supplies,	53 83	
Kindergarten materials,	130 41	
Sewing supplies,	55 48	
Laboratory supplies, Central High School,	305 15	
Supplies for elementary science,	83 04	
		$3,444 33

PERMANENT EQUIPMENT.

Science apparatus, Central High School,	$1,018 12	
Apparatus for elementary science,	51 52	
Miscellaneous drawing equipment,	172 26	
Compasses,	59 30	
Drawing boards,	28 80	
Amounts carried forward,	$1,330 00	$294,974 03

Amounts brought forward,	$1,330 00	$294,974 03
Rugs,	17 22	
Scissors,	58 34	
Pencil sharpeners,	39 40	
Typewriters,	89 00	
Adding machine,	375 00	
Maps, charts, and globes,	313 22	
General equipment,	95 03	
		$2,317 21

MANUAL TRAINING.

Equipment,	$397 72	
Materials and supplies,	1,629 98	
Sundries,	393 34	
		$2,421 04

PHYSICAL TRAINING.

Equipment,	$532 09	
Materials and supplies,	204 67	
Rent of gymnasium and athletic field,	162 50	
		$899 26

PRINTING.

Annual report and school manuals,	$498 03	
Teachers' report blanks and record books,	374 66	
Office blanks, blank books, and stationery,	446 64	
Courses of study,	101 30	
Schedules of recitations,	39 68	
Evening school blanks and notices,	62 33	
Graduation invitations, programmes, etc.,	72 15	
Diplomas,	58 00	
Book labels,	5 10	
Miscellaneous,	273 69	
		$1,931 58
Amount carried forward,		$302,543 12

Amount brought forward, $302,543 12

SUNDRIES.

Transportation of pupils,	$944 52	
Expense of compiling school census,	410 13	
Advertising,	61 69	
Postage and telegrams,	521 02	
Freight and express,	265 42	
Delivering supplies to schools,	419 33	
Assistance delivering supplies,	599 90	
Traveling expenses and car fares,	365 27	
Carriage hire,	72 00	
Tuning, repairing, and moving pianos,	87 50	
Care of High School laboratories,	78 38	
Matrons' services in bath rooms,	1,349 06	
Office supplies,	178 43	
Graduation expenses,	213 72	
Engrossing diplomas,	107 95	
Incidentals,	34 54	
		$5,708 86

JANITORS' SUPPLIES, ETC.

Brooms, brushes, and dusters,	$425 58	
Mops, mop rags, sponges, etc.,	95 32	
Towels,	163 64	
Soap, washing powders, etc.,	352 90	
Disinfectants,	112 20	
Toilet paper,	147 43	
Laundry,	549 31	
Flags and repairing,	52 30	
Shovels, pails, dustpans, baskets, etc.,	158 82	
Thermometers,	16 00	
Incidentals,	22 81	
		$2,096 31
		$310,348 29

TECHNICAL HIGH SCHOOL.

Appropriation, ...	$22,000 00	
Transfer from Evening School of Trades,	1,300 00	
Transfer from Ordinary Schools, . .	3,175 00	
Receipts: Tuition of non-resident pupils,	1,315 83	
Materials sold, etc., . . .	164 31	
		$27,955 14
Expenditures, as below, ...	$27,851 36	
Transfer to Evening School of Trades, .	40 00	
Expenditures in Schoolhouse Agent's department, ...	40 43	
Balance unexpended, ...	23 35	
		$27,955 14

EXPENDITURES.

Salaries of teachers, ...		$22,272 50
BOOKS.		
Text-books, ...	$1,044 05	
Reference books, ...	192 59	
		$1,236 64
SUPPLIES.		
Drawing, ...	$244 94	
Laboratory, ...	130 33	
Machine shop, ...	135 55	
Forge shop, ...	92 70	
Joinery, ...	139 89	
Miscellaneous, ...	118 34	
		$861 75
PERMANENT EQUIPMENT.		
Drawing, ...	$69 77	
Science, ...	267 79	
Joinery, wood turning, etc., ...	298 57	
Machine shop, ...	148 62	
Forge shop, ...	125 15	
Household Arts department, ...	250 82	
General, ...	49 91	
		$1,210 63
Amount carried forward,		$25,581 52

Amount brought forward,		$25,581 52

MATERIALS.

Wood-working,	$382 67	
Machine shop,	43 58	
Forging,	205 92	
Household Arts department,	12 90	
		$645 07

SUNDRIES.

Printing,	$181 63	
Freight, express, and postage,	166 45	
Clerical assistance,	450 00	
Tool-room assistants,	258 99	
Laboratory assistants,	69 48	
Incidentals,	498 22	
		$1,624 77
		$27,851 36

EVENING SCHOOL OF TRADES.

Appropriation,	$3,000 00	
Transfer from Technical High School,	40 00	
Receipts for tuition and incidental fees,	1,833 50	
		$4,873 50
Expenditures, as below,	$3,564 72	
Transfer to Technical High School,	1,300 00	
Balance unexpended,	8 78	
		$4,873 50

EXPENDITURES.

Salaries of teachers,	$2,761 50	
Materials and supplies,	517 18	
Sundries,	286 04	
		$3,564 72

COOKING SCHOOLS.

Appropriation,		$2,800 00
Expenditures, as below,	$2,747 31	
Balance unexpended,	52 69	
		$2,800 00

EXPENDITURES.

Salaries of teachers,	$1,974 20	
Furniture and equipment,	153 28	
Groceries and provisions,	522 48	
Incidentals,	97 35	
		$2,747 31

KINDERGARTENS.

Appropriation,	$16,000 00	
Receipts,	25	
		$16,000 25
Expenditures, as below,	$15,662 87	
Balance unexpended,	337 38	
		$16,000 25

EXPENDITURES.

Salaries of teachers,	$14,627 94	
Furniture and equipment,	341 48	
Miscellaneous supplies,	366 24	
Mopping and cleaning floors,	303 20	
Incidentals,	24 01	
		$15,662 87

Expenditures in the Schoolhouse Agent's department, and expenditures for New School Buildings and for Alterations and Permanent Improvements, are made by the Committee on City Property of the City Government, not by the School Committee. They are included in this report as a matter of information and convenience.

SCHOOLHOUSE AGENT'S DEPARTMENT.

ORDINARY SCHOOLS.

Appropriation,	$60,000.00	
Receipts,	5,731.84	$65,731.84
Expenditures, as below,	$64,222.45	
Transfer to Schoolhouse Repairs,	1,000.00	
Balance unexpended,	509.39	$65,731.84

EXPENDITURES.

Agent's and janitors' salaries,	$32,047.71	
Shoveling snow,	324.55	
Coal,	24,430.14	
Charcoal,	379.64	
Wood,	6.50	
Gas,	664.52	
Electric lights,	2,378.45	
Electric power at Chestnut Street, Indian Orchard Grammar, White, Howard, and East Union Street Schools,	865.21	
Lawns and furnishings,	618.27	
Clerical work,	227.25	
Advertising,	8.70	
Telephone service,	16.64	
Coal inspection,	81.00	
Sidewalks and grading work,	1,302.77	
Roll top desk, City Property Committee,	23.00	
Premium on boiler insurance,	265.20	
Cleaning floors, Technical High School,	50.88	
Curbing at Homer Street School,	140.96	
Electric light conduit, East Union Street School,	28.75	
Water connection, Five Mile Pond School,	36.31	
Sanitaries at Barrows School,	109.35	
Incidentals,	226.65	$64,222.45

SCHOOLHOUSE REPAIRS.

Appropriation,	$17,500.00	
Special appropriation, Chestnut Street School,	1,300.00	
Balance Barrows School sanitaries,	245.96	
Balance Howard Street School account,	289.24	
Transfer from Schools, City Property account,	1,000.00	
Receipts,	346.09	$20,681.29
Expenditures,	$20,671.47	
Balance unexpended,	9.82	$20,681.29

For detailed report of expenditures for schoolhouse repairs, see Report of Schoolhouse Agent.

NEW BUILDINGS.	Expended in 1906.	Previously Expended.
Technical High School,	$127,861.47	$215,655.73
Howard Street School,	21,909.88	55,396.83

SUMMARY.

	Appropriations.	Receipts plus or minus Transfers.	Appropriations, Receipts and Transfers.
Ordinary Schools,	$300,000.00	$10,980.10	$310,980.10
Schools, City Property Com.,	60,000.00	4,731.84	64,731.84
Technical High School,	22,000.00	5,915.14	27,915.14
Evening School of Trades,	3,000.00	573.50	3,573.50
Cooking Schools,	2,800.00		2,800.00
Kindergartens,	16,000.00	.25	16,000.25
Schoolhouse Repairs,	17,500.00	3,181.29	20,681.29
	$421,300.00	$25,382.12	$446,682.12

	Appropriations, Receipts and Transfers.	Expenditures.	Balances Unexpended.
Ordinary Schools,	$310,980.10	$310,448.29	$531.81
Schools, City Property Com.,	64,731.84	64,222.45	509.39
Technical High School,	27,915.14	27,891.79	23.35
Evening School of Trades,	3,573.50	3,564.72	8.78
Cooking Schools,	2,800.00	2,747.31	52.69
Kindergartens,	16,000.25	15,662.87	337.38
Schoolhouse Repairs,	20,681.29	20,671.47	9.82
	$446,682.12	$445,208.90	$1,473.22

The expenditures chargeable to the different grades of schools are as follows:—

DAY SCHOOLS.

HIGH.

Teachers' salaries,	$40,625 68	
Clerical assistance,	750 00	
Extra clerical assistance,	9 12	
Text-books and book covers,	2,152 72	
Reference books,	113 15	
Writing paper, notebooks, and paper supplies,	1,823 74	
Miscellaneous supplies,	485 62	
Laboratory supplies,	305 15	
Science apparatus,	1,018 12	
Miscellaneous equipment,	514 91	
Printing and advertising,	390 72	
Diplomas and graduation expenses,	276 67	
Postage,	71 90	
Physical training, equipment, and sundries,	664 59	
Care of laboratories,	78 38	
Janitors' supplies,	153 44	
Laundry,	47 95	
Sundries,	110 30	
Proportion of general expenses,	1,782 21	
		$51,374 37

PRIMARY AND GRAMMAR.

Teachers' salaries,	$208,455 79	
Truant officers,	1,908 37	
Text-books and book covers,	11,332 37	
Writing copies,	791 25	
Reference books,	21 49	
Writing paper, notebooks, and paper supplies,	4,079 02	
Miscellaneous supplies,	2,965 07	
Elementary science,	134 56	
Maps, charts, and globes,	274 07	
Amounts carried forward,	$229,961 99	$51,374 37

Amounts brought forward,	$229,961 99	$51,374 37
Miscellaneous equipment, ...	458 59	
Manual training equipment, . . .	397 72	
Manual training supplies, . . .	1,629 98	
Manual training sundries, . . .	393 34	
Printing, ...	728 96	
Transportation of pupils, ...	944 52	
Matrons' services in bath rooms, . .	1,349 06	
Expense of compiling school census, .	410 13	
Diplomas and graduation expenses, . .	112 50	
Janitors' supplies, ...	1,083 27	
Laundry, ...	501 38	
Sundries, ...	63 08	
Proportion of general expenses, . .	8,437 23	
		$246,471 75

EVENING SCHOOLS.

HIGH.

Teachers' salaries, ...	$2,724 80	
Clerical assistance, ...	100 50	
Text-books, ...	227 40	
Miscellaneous supplies, ...	234 53	
Printing and advertising, ...	92 15	
Diplomas and graduation expenses, . .	8 40	
Sundries, ...	40 90	
Proportion of general expenses, . .	106 92	
		$3,535 60

PRIMARY AND GRAMMAR.

Teachers' salaries, ...	$7,838 70	
Clerical assistance, ...	4 00	
Text-books, ...	298 80	
Miscellaneous supplies, ...	87 90	
Printing and advertising, ...	57 02	
Proportion of general expenses, . .	356 40	
		$8,642 82
Amount carried forward,		$310,024 54

Amount brought forward,		$310,024 54

DRAWING.

Teachers' salaries,	$291 50	
Printing and advertising,	8 30	
Models,	13 45	
Proportion of general expenses,	10 50	
		$323 75
		$310,348 29

GENERAL EXPENSES.

Superintendent,	$4,000 00	
Superintendent's clerk,	1,500 00	
Clerical assistants,	1,881 30	
Clerk of School Committee,	100 00	
Printing,	903 99	
Advertising,	16 35	
Postage and telegrams,	446 74	
Freight and express,	188 55	
Delivering supplies to schools,	419 33	
Assistance delivering supplies,	599 90	
Traveling expenses and car fares,	365 27	
Carriage hire,	72 00	
Office supplies,	178 43	
Incidentals,	21 40	
		$10,693 26

COST PER PUPIL.

(Based on average number belonging.)

ORDINARY SCHOOLS. GRADES.	Teachers' Salaries.	Text and Reference Books.	Supplies and Equipment.	Gen'l Expenses and Miscellaneous.	Total Cost per Pupil.
Central High	$44.30	$2.47	$5.41	$3.84	$56.02
Grammar and Primary	21.49	1.25	1.32	1.35	25.41
Evening High	7.99	.67	.98	.73	10.37
Evening Grammar and Primary	9.32	.36	.17	.43	10.28
Evening Drawing	4.04			.44	4.48
Totals for day schools	$23.65	$1.35	$1.67	$1.57	$28.24
Totals for evening schools	$8.89	$0.40	$0.30	$0.52	$10.11
KINDERGARTENS	$25.80		$1.25	$0.57	$27.62

TECHNICAL HIGH SCHOOL.

(Average number belonging for fiscal year 218.6.)

ACCOUNT OF THE SCHOOL COMMITTEE.

	Salaries.	Text-Books.	Materials and Supplies.	Sundries.	Total.
Academic Department	$49.05	$4.77	$0.63	$3.45	$57.90
Mechanical Department	39.00		6.30	5.07	50.37
Totals	$88.05	$4.77	$6.93	$8.52	$108.27

ACCOUNT OF THE CITY PROPERTY COMMITTEE.

	Heat.	Light.	Janitor Service.	Engr. Fireman.	Sundries.	Total.
Academic Department	$5.17	$0.08	$2.99	$3.62	$0.88	$12.74
Mechanical Department	5.18	.08	2.99	3.64	.8	12.78
Totals	$10.35	$0.16	$5.98	$7.26	$1.77	$25.52

Total per capita cost of Academic Department	$70.64
" " " Mechanical "	63.15
Total	$133.79

EVENING SCHOOL OF TRADES.

(Average number belonging for fiscal year 243.9.)

Salaries.	Materials and Supplies.	Sundries.	Heat.	Light.	Total.
$11.32	$2.12	$1.17	$4.64	$1.32	$20.57

GENERAL STATISTICS.

POPULATION.

Population of the city, 1900 (United States Census),	62,059
Population of the city, 1906 (State Census),	75,968

SCHOOL CENSUS.

Number of children in Springfield between five and sixteen years of age, Sept. 1, 1906, 13,359

Distributed as follows:—

	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	Totals.
Ward 1......	210	235	244	244	249	242	239	246	222	209	158	2498
Ward 2......	192	201	191	183	190	205	196	174	192	139	139	2002
Ward 3......	53	61	67	70	59	68	59	79	53	68	54	691
Ward 4......	63	88	80	79	93	86	78	82	87	87	82	905
Ward 5......	92	127	104	119	102	107	133	120	101	123	107	1235
Ward 6......	134	136	131	142	146	125	137	146	133	129	113	1472
Ward 7......	154	201	190	180	196	163	190	178	177	162	182	1973
Ward 8......	201	276	264	258	240	243	235	246	229	205	186	2583
Totals	1099	1325	1271	1275	1275	1239	1267	1271	1194	1122	1021	13359
In public schools..	836	1080	1048	1064	1072	1050	1008	1034	996	720	537	10445
In parochial schools..	125	190	208	197	194	181	250	215	182	135	58	1935
In private schools..	7	3		8	4	6	5	14	7	17	10	81
Not attending school..	131	52	15	6	5	2	4	8	9	250	416	898

Of the above number not attending school, 128 boys and 86 girls fourteen years of age, and 200 boys and 156 girls fifteen years of age, are at work.

Number of male illiterate minors over fourteen years of age,	231
Number of female illiterate minors over fourteen years of age,	131
Total,	362

Summary of school census for 1905:—

	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	Totals.
In public schools.	882	1048	1063	1083	1014	1026	1014	988	961	720	545	10344
In parochial schools..	142	191	161	185	174	235	214	199	164	110	65	1849
In private schools	5	1	3	7	7	5	5	7	17	11	17	85
Not attending school..	152	36	9	2	3	6	2	7	11	231	331	790
Totals for 1905...	1181	1276	1236	1277	1198	1272	1235	1201	1153	1072	958	13059
Totals for 1904...	1185	1229	1242	1245	1238	1190	1160	1199	1081	969		11738

SCHOOL ENROLLMENT AND ATTENDANCE.

(For the school year ending June 29, 1906.)

SCHOOLS.	Whole Number Enrolled.	Average Number Belonging.	Average Number Attending.	Per cent. of Attendance.
Central High,	1,002	916.7	873.	95.2
Technical High,	223	189.	180.9	95.7
Grammar and Primary,	11,274	9,698.9	9,079.6	98.3
Kindergartens,	1,083	567.4	472.5	82.2
All day schools,	13,582	11,372.	10,606.	93.2
Evening High,	573	299.4	220.1	73.5
Evening Grammar and Primary,	1,313	682.6	506.1	75.5
Evening Draughting,	96	73.7	60.9	82.7
Evening Drawing,	120	48.3	35.	72.2
Evening Trade Classes,	173	136.7	121.8	88.2
All evening schools,	2,275	1,240.7	943.9	78.4

For detailed report of enrollment and attendance, see page 92.

CENTRAL HIGH SCHOOL.

Distribution of Pupils by Ages and Classes, November, 1906.

CLASS.	AGE.	12	13	14	15	16	17	18	19	20	22	Total.	Class Total.
Post-Graduate	Boys.						1		2	2		5	
	Girls.					1		2	2	1		6	11
Senior	Boys.					3	19	15	5	1		43	
	Girls.				2	5	19	31	26	8	1	92	135
Junior	Boys.			3	6	12	11	11	2	1		46	
	Girls.				7	31	24	19	4	1		86	132
Sophomore	Boys.		4	7	26	20	9	6	2	1		75	
	Girls.		1	16	27	34	27	7	4			116	191
Freshman	Boys.	3	11	18	17	10	5	1	1	1		67	
	Girls.	2	17	45	34	28	11	3	1			141	208
Totals,		5	33	89	119	144	126	95	49	16	1		677

Average Ages, November, 1906.

		Average Age.	Oldest.	Youngest.	Av. Age of Class.
Post-Graduate	Boys.	19.0	20-4	17-9	18.6
	Girls.	18.3	20-7	16-10	
Senior	Boys.	17.5	20-3	16-4	17.8
	Girls.	18.1	22-11	15-3	
Junior	Boys.	16.6	20-3	14-1	16.7
	Girls.	16.8	20-2	15-0	
Sophomore	Boys.	15.7	20-3	13-7	15.8
	Girls.	15.9	19-9	13-11	
Freshman	Boys.	14.7	20-9	12-4	14.7
	Girls.	14.8	19-0	12-6	

Distribution of Central High School by Classes and Courses, November, 1906.

CLASS.		General Course.	College Preparatory.	Common.	Total.	Class.
Post-Graduate	Boys.	5			5	
	Girls.	6			6	11
Senior	Boys.	21	22		43	
	Girls.	59	33		92	135
Junior	Boys.	24	22		46	
	Girls.	46	40		86	132
Sophomore	Boys.	19	56		75	
	Girls.	70	46		116	191
Freshman	Boys.			67	67	
	Girls.			141	141	208
Totals,		250	219	208		677

Number of pupils admitted to high school grade in September, 1906, on recommendation of principals of city grammar schools: —

State Street,	122
Chestnut Street,	123
Buckingham,	78
Central Street,	64
Forest Park,	70
Indian Orchard,	18
Sixteen Acres,	1
Total,	476
Number entering Central High School,	163
Technical High School,	248
Total,	411

Number of pupils examined and admitted to Technical High School:—

From city grammar schools,	14
From schools outside the city (new residents and non-residents),	17
	31

Number of pupils examined and admitted to Central High School:—

	Examined.	Admitted.
From the city grammar schools,	46	6
From city private and parochial schools,	2	2
From schools outside the city (new residents and non-residents),	35	18
	83	26
Whole number of pupils finishing the grammar school course (including those passing the examinations),		498
Of these, the number entering—		
Central High School,		190
Technical High School,		262
		452

Number of pupils graduated, June, 1906, from the Central High School:—

From the regular four years' courses,	125
From the Commercial course (four years),	8
From the Commercial course (three years),	25
	158
Number graduated from the Technical High School,	14
Total,	172

DISTRIBUTION OF PUPILS BY AGES AND GRADES IN SEPTEMBER, 1906.

AGES.	I.	II.	III.	Gram Prep.	IV.	V.	VI.	VII.	VIII.	IX.	Totals.
Under 5 years....	17										17
5 years..........	359	1									360
6 "	690	208	1								899
7 "	299	583	160		7	1					1,050
8 "	81	389	443	4	141	8					1,066
9 "	30	126	377	10	399	134	5	1			1,082
10 "	4	50	187	9	355	335	85	13	3		1,041
11 "	2	13	54	15	175	298	288	90	15	4	954
12 "	1	3	25	24	106	195	303	263	88	13	1,021
13 "	1	1	16	23	44	119	219	286	199	82	990
14 "		1	3	26	19	55	98	184	207	157	750
15 "			1	21	2	5	23	77	134	151	414
16 "				6		1	3	23	52	81	166
17 "								4	10	18	32
18 "							1		4	6	11
Over 18 years....				1	1					2	4
Totals...........	1,484	1,375	1,267	139	1,249	1,151	1,025	941	712	514	9,857

DISTRIBUTION OF PUPILS BY GRADES IN SEPTEMBER, 1906.

SCHOOLS.	I.	II.	III.	Gram Prep.	IV.	V.	VI.	VII.	VIII.	IX.	Totals.
State Street.......								42	188	162	392
Chestnut Street...						74	248	236	231	130	919
Buckingham							63	125	118	96	402
Central Street.....	28	49	32		42	70	86	67	41	45	460
Forest Park	35	38	12		20	82	76	150	103	61	577
Indian Orch. Gram.	46	43	36		42	71	38	30	22	20	348
Barrows............						113	132	103			348
Howard Street.....	49	39	36	21	42	89	120	95			491
Worthington St...	71	76	46	22	53	61	57	28			414
Armory Street.....	61	56	69		85	58	55	45			429
Brightwood	49	68	42		37	41	27	13			277
School Street.......	28	19	31		19	34	18				149
Tapley..............	84	67	83		88	73	68				463
White Street.......	74	82	71		64	41	30				362
Hooker.............	124	81	80	24	85	119					513
Homer Street......	59	70	63		61	68					321
South Main Street.	79	100	53	20	91	60					403
Carew Street	113	97	88	11	100	74					483
Jefferson Avenue..	41	110	96		81						328
Eastern Avenue....	48	24	44		89						205
Indian Orch. Prim.	26	25	29		33						113
Strickland.........	62	48	53		46						209
East Union Street..	70	29	72	18	40						229
William Street.....	110	90	102	23	63						388
Belmont Avenue ..	40	35	30		41						146
Alden Street.......	56	48	32								136
Charles Street......	85	41	40								166
Boston Road.......	8	18	12								38
Five Mile Pond....	7	3	4		7	8	7				36
Glenwood..........	20	12	7		9	7					55
Sixteen Acres......	7	3			5	3		4	9		31
Wachogue..........	4	4	4		6	5		3			26
Totals..............	1,484	1,375	1,267	139	1,249	1,151	1,025	941	712	514	9,857

AVERAGE AGE IN EACH GRADE IN SEPTEMBER, 1906.

SCHOOLS.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.
State Street							13–6	18–11	14–5
Chestnut Street					10–11	12–2	12–8	13–4	14–7
Buckingham						11–11	12–8	13–9	14–4
Central Street	6–2	7–4	8–8	9–6	11–	12–2	12–11	13–11	14–5
Forest Park	5–10	6–6	8–2	8–11	9–9	11–9	12–8	13–10	14–6
Indian Orchard Gram.	6–1	7–9	8–7	10–3	11–7	11–10	13–3	13–9	14–10
Barrows					11–5	12–2	13–1		
Howard Street	6–4	7–6	9–3	10–7	11–6	12–3	13–		
Worthington Street	6–6	7–11	9–1	10–8	11–1	12–2	13–2		
Armory Street	5–11	7–1	8–4	9–6	10–10	11–9	12–10		
Brightwood	5–9	7–6	9–	10–6	11–1	11–7	12–7		
School Street	6–1	7–4	7–9	9–4	11–6	11–8			
Tapley	6–2	7–1	8–2	9–2	10–2	11–5			
White Street	6–1	7–5	8–5	9–11	10–9	11–10			
Hooker	6–7	7–9	9–1	10–4	11–1				
Homer Street	6–1	6–11	8–3	9–9	10–7				
South Main Street	6–3	7–5	9–2	10–7	11–6				
Carew Street	5–11	7–4	8–8	10–	10–7				
Jefferson Avenue	6–4	7–2	8–4	9–5					
Eastern Avenue	6–5	7–6	9–	9–7					
Indian Orchard Primary	6–7	7–11	8–5	12–2					
Strickland	6–3	7–4	8–11	9–10					
East Union Street	6–10	7–11	9–6	10–6					
William Street	6–5	7–11	9–9	10–5					
Belmont Avenue	5–10	6–11	8–5	9–3					
Alden Street	6–6	7–4	8–8						
Charles Street	6–3	7–8	8–11						
Boston Road	5–10	7–	8–9						
Five Mile Pond	5–6	7–4	7–7	9–5	10–1	12–			
Glenwood	6–2	7–9	9–4	9–10	10–5				
Sixteen Acres	6–3	10–		8–2	11–		10–9	12–	
Wachogue	6–3	6–6	7–9	9–4	12–2				
Average	6–2	7–5	8–8	9–10	10–11	11–11	12–9	13–6	14–6

TEACHERS IN THE PUBLIC SCHOOLS, JANUARY, 1907.

DAY SCHOOLS.	MEN.	WOMEN.	TOTAL.
High Schools,	23	37	60
Grammar Grades,	8	173	181
Primary Grades,		101	101
Special Schools,		7	7
Ungraded Schools,		7	7
Cooking Schools,		3	3
Kindergartens,		27	27
Special Teachers,	5	12	17
General Substitutes,		2	2
Total in Day Schools,	36	369	405
EVENING SCHOOLS.			
High,	8	12	20
Elementary,	8	44	52
Drawing,	1	2	3
Trades,	12		12
Total in Evening Schools,	29	58	87

STATISTICAL TABLE

For the School Year Ending June 29, 1906.

(The registered number is the whole number of pupils in the school during any portion of the year, including transfers on account of changes in residences, etc.)

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
Central High,		William Orr, Prin.,		1002	916.7	873	95.2
		Ida M. Brooks,					
		Mrs. Louise M. Bullman,					
		Howard H. Carroll,					
		Winifred May Crook,					
		Mrs. Elizabeth W. Crowell,					
		J. Florence Ditmars,					
		Carlos B. Ellis,					
		Florence H. Frost,					
		Edith A. Howland,					
		Roy A. Kane,					
		Ethel L. Keith,					
		Howard C. Kelly,					
		Evered E. Kent,					
		Albert B. Kimball,					
		Elizabeth G. Kimball,					
		Jessie M. Law,					
		Grace R. Lillibridge,					
		Florence Lillie,					
		Sarah E. Lovell,					
		Alice I. Mandell,					
		Walter V. McDuffee,					
		Florence Messer,					
		Marion C. Murphy,					
		Mary H. Perkins,					
		Ethel M. Power,					
		Eva Z. Prichard,					
		Mary L. Regal,					
		Margaret L. Robertson,					
		Emilie de Rochemont,					
		Waterman S. C. Russell,					
		Maude E. Severance,					
		Mabel E. Stock,					
		Julia W. Strong,					
		Edith J. Swett,					
		Lawrence Taylor,					
		Emma E. Thrasher,					
		Julius Tuckerman,					
		Florence D. White,					
		Ellen A. Winslow,					
		*					
Technical High,		Charles F. Warner, Prin.,		223	189	180.9	95.7
		Burton A. Adams,					
		John W. Burley,					
		William G. de Coligny,					
		Arthur D. Dean,					
		Edwin A. Finch,					
		Edward E. Holton,					
		Fred L. Hunn,					
		Alfred R. Lincoln,					
		Grace MacLeod,					
		Frank E. Mathewson,					
		Mary L. Sawyer,					
		Rose F. Sherman,					
		Kate Stanley,					

---

*Mrs. Ida A. Burleigh, Lucy D. Heald, Jennie M. Joslin, David W. Pollard, and Alice M. Wing are on leave of absence for the whole or a part of the year.

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
Alden Street,	2	Sarah C. Edgar, Prin.,	I-II.	39	33.2	31.1	93.6
	4	Nellie A. Ryan,	III.	41	38.9	36.2	93.
	3	Elizabeth Frothingham,	II.	38	32.3	29.5	91.3
	1	Carrie E. Coe,	I.	44	33.9	28.5	84.
Armory Street,	12	Anna L. Rice, Prin.,	VI-VII.	36	34.1	32.3	94.7
	12	Elizabeth P. Knight, Asst.,	VI-VII.				
	9	Mary H. Garvey,	VI.	41	38.5	36.4	94.1
	8	Florence M. Abbe,	V-VI.	43	36.2	33.9	93.6
	7	Martha J. Gillett,	IV-V.	43	39.7	36.3	91.4
	6	Florence J. Wiley,	IV.	39	33.6	31.6	94.
	5	Maud M. Stoddard,	III.	43	38.	35.3	92.9
	4	Winifred M. Scott,	III.	43	40.8	38.	93.1
	3½	Bessie I. Kelley,	II.	37	30.5	28.3	92.8
	3	Mary A. Walker.	II.	41	35.1	31.8	90.5
	2	Agnes D. Merwin,	I.	38	36.9	33.8	91.6
	1	Irma A. Ketchum,	I.	42	35.8	31.1	86.8
Barrows,		Wellington Hodgkins, Prin.,					
	10	Clara D. Frost,	VII.	33	33.9	32.3	95.2
	9	Mary A. Howard,	VII.	34	30.4	29.2	96.
	7	Fannie A. Fiske,	VII.	35	32.8	32.	97.5
	8	Elizabeth L. Higgins,	VI-VII.	39	35.1	33.4	95.1
	6	Mary H. McCarthy,	VI.	42	37.3	35.1	94.1
	5	Mary F. Pomeroy,	VI.	34	32.6	30 8	94.4
	1	Lucy A. Talmadge,	V-VI.	38	34.1	32.5	95.
	3	Ella F. Hooker,	V.	38	39.8	37.8	94.9
	4	Ruth E. McIntire,	V.	53	43.3	40.6	93.5
	2	Clara M. Ingraham,	V.	48	42.7	40.3	94.3
Belmont Ave.,	4	Josephine C. Foster, Prin.,	IV.	37	33.3	32.3	96.9
	3	Alice M. Bowen,	III.	41	39.7	36.5	91 9
	2	Sara M. Waters.	II.	35	30.2	28.3	93.7
	1	Lillian M. Bartlett,	I.	44	37.	33.1	89.4
Boston Road,	1	Harriet E. Colburn,	I., II., III.	39	35.1	31.4	89.4
Brightwood,	1	Allie G. Axtelle, Prin.,	VI-VII.	44	35.6	34.2	96.
		Elsie M. Crosier, Asst.,	VI-VII.				
	7	Nora A. Donohue,	V.	40	37.1	35.5	95.6
	10	Mary E. Pellissier,	IV.	44	36.9	34.7	94.
	9	Sara R. O'Brien,	III.	39	31.	28.7	92.6
	8	Margaret G. Kirby,	II.	39	35.5	33.8	95.2
	2	Florence F. Champion,	II.	42	33.9	31.6	93.2
	5	Bertha A. Kuralt,	I.	76	42.8	38.9	90.8
Buckingham,		Arthur P. Irving, Prin.,					
	12	Fannie M. Moulton,	IX.	39	34.4	32.8	95.3
	11	Margaret P. Higgins,	IX.	33	28.5	27.	94.7
	10	Mary A. Lewis,	IX.	36	31.9	30.8	96.5
	9	A. Caro Balcom,	VIII.	41	39.	37.5	96.1
	8	Helen S. Ordway,	VIII.	39	35.5	34.	95.7
	7	Grace M. Reed,	VIII.	43	37.	34.8	94.
	3	Selena F. Benoit,	VII-VIII.	39	36.2	34.1	94.1
	2	Amy W. Lawrence,	VII.	40	36.6	34.2	93.4
	1	Frances L. Belcher,	VII.	38	35.4	33.4	94.3
	6	F. Grace Burdick,	VII.	35	31.5	29.6	93.9
	4	Florence V. Miller,	VI.	33	30.4	28.4	93.4
	5	May T. Grout,	VI.	43	38.6	37.	95.8

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
Carew Street,	13	**Mary E. Daboll, Prin.,**	V.	47	40.4	38.2	94.5
		Eva Collins, Asst.,	V.				
	12	**Cecile M. Dimond,**	V.	44	41.5	39.4	94.9
	6	**Grace E. Nichols,**	IV.	39	35.3	33.7	95.4
	7	**Ella J. Jones,**	IV.	40	35.	32.9	94.
	5	**Fannie E. Gibbs,**	III-IV.	45	37.6	35.9	95.4
	2	**Carrie E. Cobb,**	III.	46	41.	38.2	93.1
	4	**Agnese C. Ludden,**	II-III.	39	37.1	34.4	92.7
	3	**Fannie G. Kimball,**	II.	46	36.2	33.6	92.8
	2	**Ella E. Taintor,**	II.	44	38.5	35.7	92.7
	8	**Mabel F. Warren,**	I.	49	40.8	36.9	90.4
	9	**Georgietta Hooker,**	I.	72	40.1	35.4	88.2
	1	**Katherine Newman,**	I.	37	34.8	32.1	92.2
	10	**Grace M. Bohne,**	Spec. Prep.	17	10.1	8.4	83.1
Central Street,		**John L. Riley, Prin.,**					
	13	**Dorothy Taft,**	IX.	34	31.2	29.9	95.8
	12	**Susie E. Jewell,**	IX.	34	34.	32.5	95.6
	11	**Emma R. Chapin,**	VIII.	40	33.1	31.3	94.7
	9	**Carrie M. Poor,**	VII-VIII.	31	29.9	28.5	95.3
	8	**Rebecca L. Harding,**	VII.	39	34.3	32.7	95.3
	7	**Mary A. Curtis,**	VI.	46	43 2	41.7	96.5
	6	**Sara E. Chase,**	V-VI.	45	42.2	40.1	95.
	5	**Emily L. Bettes,**	V.	51	45.9	43.1	93.9
	4	**Clara A. Farrell,**	IV.	50	38.9	36.5	93.4
	3	**Hattie M. C. Schoepf,**	III.	48	41.	38.9	94.9
	2	**Lida E. Noyes,**	I-II.	41	37.1	34.7	93.5
	1	**Anne L. Kemp,**	I.	64	46.4	40.6	87.6
Charles Street,	4	**Mrs.M. Alice Williams,Prin.,**	III-IV.	39	37.3	35.7	95.7
	3	**E. M. Blodgett,**	II	44	40.7	38.8	92.6
	2	**Edna J. Dennon,**	I.	37	36.5	34.	93.1
	1	**Mary F. Healy,**	I.	68	38.2	35.2	92.1
Chestnut St.,		**Albert Candlin, Prin.,**					
	9	**Ella J. Ross,**	IX.	42	36.7	35.4	96.3
	8	**M. C. Roberts,**	IX.	38	33.	30.8	93.4
	7	**Lucy P. Bartlett,**	IX.	42	36.8	35.7	97.
	6	**Emma S. Lundberg,**	IX.	41	35 5	33.5	94.2
	10	**Ida A. Ross,**	VIII.	44	40.5	38.3	94.4
	4	**Jean M. Ashton,**	VIII.	42	33.7	31 8	94.3
	2	**Grace A. Puffer,**	VIII.	46	39.4	33.7	86.
	1	**Kate W. Smith,**	VIII.	46	36.5	34.1	93.4
	3	**Helen A. Buck,**	VII-VIII.	43	39.1	37.1	94.7
	5	**Jennie E. Cooley,**	VII-VIII.	42	39.2	36.1	92.1
	18	**Harriet M. Gillett,**	VII.	43	40.6	37.5	92.3
	17	**Maud G. Rich,**	VII.	43	40.5	38.3	94.2
	16	**Maria L. F. Moore,**	VII.	43	39.8	36.7	92.3
	15	**Bertha Brockway,**	VII.	43	42.	40.5	96.2
	14	**Mabel G. Carley,**	VII.	45	42.8	39.9	93.
	19	**Lillian H. Martin,**	VI.	47	42.8	39.6	92.4
	13	**Gertrude K. Pratt,**	VI.	42	42.4	39.2	93.
	12	**Clara H. Phillips,**	VI.	53	42.4	39.5	93.
	11	**Sarah E. Burrall,**	VI.	48	40.6	38.8	95.5
	21	**Anna L. Boeker,**	V.	50	45.1	42.4	94.4
	20	**M. Bertha Holmes,**	V.	51	42.4	39.8	93.2
	24	**Katherine A. Lane,**					
Eastern Ave.,	6	**Mary E. O'Neill, Prin.,**	IV.	43	37.4	35.4	94.4
		Mabel A. Pease, Asst.,					
	5	**Jessie B. Newton,**	III-IV.	48	42.3	40.	94.6

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
Eastern Ave. (*Continued*),	4	Della B. Knappe,	II-III.	43	39.6	37.1	93.6
	2	M. Helen Newton,	II.	44	35.9	33.7	93.6
	1	Edna Hill,	I.	54	39.1	34.6	88.3
East Union Street,	8	Laura L. Boice, Prin.,	IV.	45	39.6	37.6	95.7
	8	Fannie C. Pease, Asst.,					
	5	Mrs. Ida Burdick,	III.	40	37.	34.9	94.7
	3	Adella F. Whitworth,	II-III.	36	30.9	29.2	94.5
	2	Harriette V. Flagg,	II.	34	28.5	26.7	93.6
	1	Elsie P. Gamerdinger,	I.	44	33.4	29.6	88.6
	7	Nellie M. Peck,	I.	38	32.9	30.8	93.6
	6	Louise Comstock,	Gram.Prep.	22	16.6	14.8	89.1
Five Mile Pond,	1	Ellen A. O'Keefe,		39	30.4	26.5	87.
Forest Park,		George E. Foss, Prin.,					
	8	Louise S. Steinway,	IX.	30	31.	29.8	95.8
	4	Annie Whelan,	IX.	37	37.	35.4	95.7
	3	Ethel G. Wescott,	IX.	44	37.9	37.	97.
	2	Robenia F. Anthony,	VIII.	35	33.5	31.9	95.2
	1	Elizabeth L. Kent,	VIII.	36	29.8	28.2	94.6
	18	Nellie J. Campbell,	VII.	35	36.7	35.2	95.6
	17	Mae L. Thomas,	VII.	33	39.	37.3	95.6
	10	Ella C. Emerson,	VII.	36	35.9	33.8	93.
	16	Helena I. Duckworth,	VI.	40	38.5	36.5	94.8
	15	Katherine E. Brosnan,	VI.	46	41.4	39.4	95.1
	14	Florence M. Morrison,	VI.	46	39.8	37.9	95.2
	19	Mrs. Kingsley, Sub.,	V.	38	36.8	32.1	93.5
	13	Mabel K. Mills,					
	13	Mary B. Hart,	V.	45	40.3	37.7	93.6
	12	Florence A. Cooper,	IV-V.	28	29.6	27.9	94.2
	11	Alice A. Johnson,	II-III.	39	31.	29.	93.3
	9	Lillian G. Howe,	I.	49	39.7	34.	85.5
	20	Ethel W. McGregory,					
Glenwood,	2	Mary E. Loud,	III, IV, V.	34	29.3	28.3	96.6
	1	Ruby T. Knight,	I-II.	32	30.	28.1	93.6
Homer Street,	8	Ellen T. Sullivan, Prin.,	V.	49	37.9	36.7	94.2
	8	Mary L. Preston, Asst.,					
	5	Mary L. Ryan,	IV.	42	35.7	34.4	96.3
	4	Alice M. Ketchum,	III-IV.	40	35.8	33.8	94.4
	3	Julia A. Greene,	III.	41	37.4	35.5	94.9
	6	Annie E. Smith,	II-III.	38	38.2	35.2	92.1
	1	Gertrude Armington,	I-II.	41	41.2	37.3	90.5
	2	Isabel E. McIntire,	I.	54	45.9	41.1	89.5
	7	Minnie R. Donaldson,	V.	45	37.9	36.7	94.2
Hooker,	12	Margaret C. Bickett, Prin.,	V.	43	36 8	35.6	96.7
	12	Mabelle A. Wilson, Asst.,					
	11	Effie M. Wilcox,	V.	44	39.7	38.	95.7
	10	Mary G. Walsh,	IV-V.	49	37.6	35.6	94.6
	9	Lucretia J. Barber,	IV.	40	37.3	35.5	95.2
	8	Anna F. Gammons,	IV.	51	41.6	38.3	92.3
	7	Susan B. Pendleton,	III.	45	40.3	37.9	94.1
	6	Gertrude B. Chaffee,	III.	40	37.6	35.6	94.6
	5	Harriet E. Brown,	II-III.	47	40.5	38.8	95.8
	4	Agnes Howard,	II.	53	43.1	40.4	93.7
	3	Josephine M. Bartlett,	I-II.	35	32 2	30.3	94.

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
Hooker. (*Continued.*)	2	Annie A. Smith,	I.	39	32.4	30.	92.6
	1	Ida J. Rich,	I.	67	39.6	36.4	91.9
	13	Jennie S. Perry,	Gram.Prep.	27	17.8	16.6	93.3
Howard Street,		John R. Fausey, Prin.,					
	2	Ione L. Foss,	VII.	48	43.8	41.8	95.3
	1	Margaret R. Kenefick,	VII.	71	42.2	40.4	95.7
	3	Sara C. Hoyt,	VI.	63	46.6	44.2	94.7
	4	Elizabeth J Steele,	VI.	47	43.2	41.5	95.1
	5	Ethel A. Ronaldson,	VI.	47	43.4	41.2	95.1
	8	Maude M. Cole,	V.	47	40.8	38.3	93.7
	7	Olive A. Rainey,	V.	44	41.3	39.7	96.
	6	Elizabeth K. Woodworth,	V.	52	40.3	38.5	95.3
	9	Bessie B. Vaughan,	IV.	37	35.5	33.7	94.9
	10	Helen E. Lewis,	IV.	34	38.4	36.6	94.5
	4	Mary E. Bugbee,	II.	44	38.4	35.6	92.7
	13	Agnes B. Tyne,	I.	51	43.2	38.5	89.3
	11	Fannie Hall,	Gram.Prep.	30	20.7	19.5	94.2
Indian Orchard Gram. Bldg.,		Dwight Clark, Prin.,					
	6	Etta Sinsabaugh,	VIII-IX.	45	38.9	36.7	94.4
	7	Effie A. Merrill,	VII.	43	36.7	35.5	96.7
	5	Lilla G. Richmond,	VI.	47	36.	33.7	93.6
	8	Fidelia M. Warriner,	V.	49	35.6	34.3	96.3
	10	Susan I. Merrill,	IV.	40	83.1	32.	96.7
	9	Mary L. Wight,	IV.	41	32.3	31.5	97.5
	3	Anne M. O'Keefe,	III.	51	39.2	36.6	93.5
	4	Mary M. Quirk,	II.	40	35.	32.3	92.1
	2	Theresa M. Gilday,	I.	41	33.6	31.	92.3
	1	Alice E. Childs,	I.	46	33.6	30.2	89.8
Indian Orchard Prim. Bldg.,	6	Mrs. Harriet A. White, Prin.,	IV.	40	30.	28.7	95.6
	5	Mrs. Mary E. Richardson,	III.	32	25.3	24.3	96.1
	3	Lillian H. Nield,	II.	33	29.1	27.1	93.1
	1	Grace E. Lewis,	I.	52	37.7	33.8	89.7
Jefferson Avenue,	7	Amie M. Billings, Prin.,	IV.	39	40.2	37.8	94.
	7	Edith A. Harvey, Asst.,					
	6	Grace G. Henry,	IV.	48	41.5	38.8	93.4
	5	E. Luise B. Mache,	III.	46	42.5	40.4	95.
	4	Emma L. Schrader,	III.	45	40.2	37.3	92.7
	3½	Mamie A. Barnum,	II.	46	39.9	37.4	93.4
	3	Georgia Houston,	II.	47	43.4	39.6	91.2
	2	Minnie H. Armstrong,	I-II.	45	40.8	37.7	92.4
	8	Helen M. Bates,	I.	29	39.8	37.5	94.1
	1	Harriet P. Dow,	I.	88	51.	48.9	95.8
School Street,	4	Helen R. Davidson, Prin.,	V-VI.	50	34.6	32.8	94.8
	3	Mary E. Holcombe,	IV-V.	37	34.5	32.5	94.
	2	Sarah C. Stiles,	II-III.	56	47.	40.3	88.3
	1	Susan J. Milliman,	I.	37	25.9	22.9	82.2
Sixteen Acres,	1	Mary E. Coburn,	VIII-IX.	22	17.7	17.4	98.1
	2	Julia C. Nelson, Asst.,	I,II,III,IV.	19	15.7	13.5	86.
South Main St.,	12	Elizabeth A. Beggs, Prin.,	V.	36	34.5	33.2	96.2
	12	Grace M. Rice. Asst.,					
	8	Elizabeth Wassum,	V.	39	35.8	34.1	95.2
	9	Caroline A. Comins,	IV.	38	36.6	34.9	95.3
	7	Elizabeth A. Stevens,	IV.	47	38.3	36.6	95.5

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
South Main St. (*Continued*),	6	Eva H. Raymond,	III.	47	36.2	33.2	91.7
	4	Anna E. Alderman,	II-III.	45	36.9	35.3	95.7
	5	Mabel L. Bradford,	II.	45	37.	34.6	93.5
	1	Edith B. Robson,	II.	43	34.4	32.4	94.2
	3	Marie C. Naumann,	I.	42	37.	34.4	92.9
	2	Ella A. Maryott,	I.	62	38.5	35.2	91.4
	10	Chloe St. John,	Gram.Prep.	25	18.3	16.3	89.
State Street,		Harriet O. Emerson, Prin.,					
	1	Celia M. Chase,	IX.	26	28.4	26.8	94.4
	2	Mary S. Smith,	IX.	39	43.8	42.	95.8
	5	Edith L. Anderson,	IX.	27	26.7	25.7	96.3
	6	Clara B. MacDonald,	IX.	37	43.6	41.9	96.1
	7	F. Z. Bailey,	IX.	28	29.5	27.9	94.6
	3	H. Czarina Stacy,					
	15	May E. Seeley,	VIII.	38	34.1	32.	93.7
	14	Florence W. Huntsinpillar,	VIII.	46	47.6	44.9	94.3
	13	Minnie C. Potter,	VIII.	31	28.4	26.8	94.4
	10	Effie F. Heath,	VIII.	24	23.9	22.6	94.5
	9	Mary E. Richardson,	VIII.	35	34.2	32.5	95.
	8	Josephine E. Travis,	VIII.	47	45.5	43.5	95.6
	4	Helena E. Hartshorn,	VII.	26	37.8	35.5	93.9
		Jennie E. Livermore,					
Strickland,	6	Georgia A. Hodskins, Prin.,	IV.	45	37.	35.6	96.2
	6	Helen S. Garrett, Asst.,					
	3	M. Etta Davenport,	III-IV.	43	36.3	34.1	93.9
	5	Margaret E. Cruse,	III.	39	37.8	34.	89.9
	4	Kate L. Colton,	II.	47	37.7	34.4	91.4
	2	S. Elizabeth Beattie,	I.	42	34.4	31.7	92.1
	1	Lydia J. Chapin,	I.	57	33.1	29.1	87.9
Tapley,	14	Addie McKechnie, Prin.,	VI.	42	37.8	36.	95.1
	14	Ida M. Craig, Asst.,					
	8	Grace E. Rogers,	VI.	65	36.5	35.1	95.9
	7	Mary Marsh,	V.	42	38.4	36.2	94.7
	6	Edith A. Grant,	IV.	44	39.1	36.8	94.1
	13	Mabel L. Welcker,	III-IV.	68	38.7	36.3	93.6
	4	Gertrude E. Sheldon,	IV.	40	37.2	35.1	94.3
	5	Ida C. Flagg,	III.	43	39.7	36.5	94.8
	1	Bertha Crocker,	III.	39	35.6	33.5	94.1
	3	Jennie O. Prentice,	II.	37	36.9	34.3	92.9
	2	Gertrude E. Mullins,	II.	41	38.1	34.5	90.2
	10	Ida E. Toole,	I.	42	34.9	31.7	90.8
	9	Emily F. Ellis,	I.	53	39.9	35.7	89.4
Wachogue,		Lula L. F. Spiller,		23	16.1	15.2	94.3
White Street,	2	Julia E. Steere, Prin.,	V-VI.	42	44.3	41.9	92.6
	2	Eva Sadd. Asst.,					
	7	Flora T. Tyler, Sub.,	IV-V.	35	32.	29.7	92.8
	8	Susan C. Pease,	IV.	47	36.8	34.1	92.1
	7,5	Minnie M. Gutberlet,	III.	43	37.3	34.	91.1
	9	Margaret A. O'Brien,	II-III.	41	38.6	35.	90.5
	1	Florence E. Randall,	II.	42	38.6	34.	88.
	4	Mary C. Ladd,	I.	38	35.	30.3	86.1
	3	Grace M. Bailey,	I.	64	35.8	30.6	85.4
William Street	12	Louise F. Elwell, Prin.,	IV.	53	44.2	41.6	94.1
	12	May E. Driscoll, Asst.,					

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
William Street (*Continued*),	11	**Ellen E. Morrissey,**	III.	45	40.4	38.4	95.
	3	**Mrs. Lillie M. Speer,**	III.	42	41.9	39.7	94.7
	4	**Mrs. Cora E. Chapin,**	II-III.	43	42.1	39.7	94.2
	6	**Sara B. Hamilton,**	II.	46	42.4	40.1	94.5
	7	**Minnie J. Fitzgerald,**	II.	43	40.8	38.	93.1
	10	**Fannie A. Lewis,**	I-II.	48	40.2	37.4	93.
	8	**Florence B. Humpage,**	I.	46	38.9	34.9	89.7
	9	**Anna L. Gilmartin,**	I.	54	38.7	35.2	90.9
	5	**Mabel Clary,**	I-II.	44	20.9	19.4	93.6
Worthington Street,		**Arthur T. Talmadge, Prin.,**					
	11	**Maud Baldwin,**	VII.	52	36.5	34.8	95.4
	10	**Gertrude E. Smith,**	VI.	48	37.	34 9	94.3
	9	**Lillian K. Munson,**	V.	39	32.6	31.	95.1
	8	**Grace L. Holaday,**	V.	53	32.1	30.4	94.6
	7	**Carolyn M. Lewis,**	IV.	42	37.4	35.1	93.8
	6	**Minna Wilkinson,**	IV.	41	36.8	34 7	94.3
	*5	**Susan L. White,**	III.	46	38 2	36.1	94.5
	4	**Bertha M. Wilson,**	II.	46	34.5	31.8	92.1
	3	**Ruth M. French,**	II.	41	33.3	30.6	91.8
	2	**Rachel J. Phelps,**	I.	51	39 8	36.1	90.7
	1	**Martha N. Stery,**	I.	60	38.4	33.8	87.9
	12	**Kathleen F. O'Connor,**	Special.	24	21.3	19.1	89.9
		EVENING SCHOOLS.					
High,		**Carlos B. Ellis, Prin.,**		573	299.4	220.1	73.5
		Mrs. A. J. C. Beach,					
		Mrs. Louise M. Bullman,					
		Selena F. Benoit,					
		G. F. Buxton,					
		William G. de Coligny,					
		Charles H. Graves,					
		Georgia A. Hodskins,					
		O. E. Hovis,					
		Roy A. Kane,					
		Evered E. Kent,					
		Albert B. Kimball,					
		Ethel M. de Long,					
		Pauline C. Melius,					
		Kate B. Swift,					
		Emma E. Thrasher,					
Preparatory Class,		**Dorothy Taft,**		83	41.5	31.9	76.8
		Nellie J. Campbell,					
		Lallah Morgan,					
Howard Street,		**Frank G. Hodskins, Prin.,**		526	257.6	181.8	70.5
		Maud Baldwin,					
		Martha Blackstone,					
		Mrs. Elizabeth F. Bogart,					
		S. F. Chester,					
		Harriet E. Colburn,					
		Mrs. C. C. Colton,					
		Mary A. Curtis,					
		Nora A. Donohue,					
		Anna L. Espy,					
		Lucy Gillett,					
		Mrs. W. R. Hawkins,					
		Agnes Howard,					

---

* **On leave of absence.**

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
Howard Street (*Continued*),		Jennie Hurwitz,					
		Margaret Kirby,					
		P. F. Mansfield,					
		Mrs. C. F. Martensen,					
		Myrtle E. Mitchell,					
		Cora E. Myers,					
		Sarah R. O'Brien,					
		Kathleen F. O'Connor,					
		Silvio Origo,					
		Lucy A. Richardson,					
		Mrs. Harriet E. Todd,					
		Mrs. Flora T. Tyler,					
Indian Orchard Gram. Bldg.,		Dwight Clark, Prin.,		127	58.6	45.8	78.1
		Isabella Greenaway,					
		Mrs. Jean R. Irwin,					
		Fannie M. Piper,					
		Lilla G. Richmond,					
		Mrs. A. S. C. Thayer,					
Indian Orchard Prim'y Bldg.,		Mrs. H. A. White, Prin.,		213	162.1	134 3	82.9
		Mrs. Stella P. Brown,					
		M. Etta Davenport,					
		Louise F. Elwell,					
		Elizabeth Ford,					
		Mrs. Grace E. Hawkins,					
		Edward Hodskins,					
		Mrs. Bertha S. Keyes,					
		Jennie B. Newton,					
		Genevieve Richardson,					
		Mary E. Richardson,					
		Emma L. Schrader,					
		Mrs. Alice M. Spence,					
		Elizabeth Stevens,					
		Maria Taylor,					
		Elizabeth Wassum,					
		Henrietta K. Webster,					
Freehand Drawing,		F. H. Daniels,		120	48.3	35.	72.2
		F. M. Watts,					
		Martha J. Webber,					
Trades,		Chas. F. Warner, Prin.,	Electricity	20	14.2	12.3	86.5
		Arthur D. Dean,	Math'mat's	21	15.3	12.7	83.5
		Edwin A. Finch,	W'd-w'rk'g	15	12.1	11.	90.8
		Edward E. Holton,	Tool-Mak'g	81	63.2	57.	90.
		C. H. Wilcox, Asst.,					
		F. W. Tower,	Plumbing	36	31.9	28.8	90.3
		Frank E. Mathewson,	Draughting	96	73.7	60.9	82.7
		Burton A. Adams, Asst.,					
Chestnut St.,		Wellington Hodgkins, Prin.,		364	162.8	112.6	69.2
		Clarence Baker,					
		Helen A. Buck,					
		Nora A. Donohue,					
		Clara D. Frost,					
		Mrs. W. R. Hawkins,					
		Jennie Hurwitz,					
		Mrs. Anna L. Jackson,					
		Margaret G. Kirby,					
		Katherine A. Lane,					
		Kathleen F. O'Connor,					
		Mrs. H. E. Todd,					

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent. of Attendance.
		KINDERGARTENS.					
Armory Street.		Mary E. Spooner, Violette I. Loring, Asst.,		78	43.4	40.8	82.
Central Street,		Anna T. Shaw, Edith B. Tower, Asst.,		60	36.6	33.4	91.1
Eastern Avenue,		May L. Price, Elizabeth Bangs, Asst.,		82	39.3	31.3	79.7
East Union Street,		Mrs. M. Louise Stock, Lillian F. Collins, Asst.,		48	25.6	19.5	76.
Forest Park,		Julia B. Schniewind, Anna L. Johnson, Asst.,		69	41.2	34.3	83.2
Homer Street,		Lulu A. J. Allen, Lola J. Macartney, Asst.,		51	35.7	30.3	84.8
Hooker,		Grace H. Bowers, Sub., Edith A. Martin, Asst.,		141	68.	53.	78.
Howard Street,		Ora L. Batchelder, Ida M. Bradley, Asst.,		67	37.	28.8	77.8
Indian Orchard Gram.,		Mary A. Bassett, Ethel H. Packard, Asst.,		65	38.3	32 1	83.2
Indian Orchard Prim.,		Mary A. Bassett, Ethel H. Packard, Asst.,		65	35.3	29.9	85.4
Jefferson Avenue,		Carolyn S. Bailey, Maud E. Burnham, Ethel F. Graves, Asst.,		90	54.8	46.8	85.4
South Main Street,		Alice H. Gilbert, Martha B. Chapin, Asst.,		79	42.6	35.6	83.2
Tapley,		M. Josephine Barry, Alice E. Loynes, Asst.,		87	38.5	31.3	81.
William Street,		A. Archer Hunt, Edith L. Upson, Asst.,		106	66.4	55.3	83.2

SUMMARY OF STATISTICS

FOR THE SCHOOL YEAR ENDING JUNE 29, 1906.

SCHOOLS.	No. of Schoolrooms.	No. of Teachers.	No. of Pupils Registered.	Average No. Belonging.	Av. No. Pupils to a Room	Av. No. Pupils to Teacher.	Av. Daily Attendance.	Per cent. of Attendance.	Half Days of Truancy.	Corporal Punishments.
Central High,	32	40	1,002	916.7	28.6	23.5	873.0	95.2	0	0
Technical High,	13	14	223	189.0	27.0	13.5	180.9	95.7	0	0
Alden Street,	4	4	162	137.3	34.3	48.5	125.3	90.4	1	1
Armory Street,	11	12	446	399.2	36.2	36.2	368.8	92.3	9	32
Barrows,	10	11	394	360.0	36.0	32.0	344.0	95.0	8	1
Belmont Avenue,	4	4	157	140.2	35.0	35.0	130.2	92.9	0	1
Boston Road,	1	1	39	35.1	47.0	47.0	31.4	89.4	0	7
Brightwood,	7	8	324	252.8	36.1	36.1	237.4	94.0	14	16
Buckingham,	12	13	459	415.0	34.5	34.5	393.6	94.7	41	38
Carew Street,	13	14	565	468.4	35.4	33.4	434.8	92.2	41	26
Central Street,	12	13	523	457.2	38.1	35.1	430.5	94.2	53	17
Charles Street,	4	4	188	152.7	38.1	38.1	143.7	93.3	9	11
Chestnut Street,	21	23	934	832.0	39.6	36.1	778.7	89.0	65	48
Eastern Avenue,	5	5	232	232.3	46.4	46.4	216.8	93.0	5	6
East Union Street,	7	8	259	218.9	31.2	31.2	203.6	92.8	14	34
Five Mile Pond,	1	1	39	30.4	41.0	41.0	26.5	87.0	3	0
Forest Park,	17	18	617	577.9	39.9	33.9	545.3	94.0	25	7
Glenwood,	3	2	66	59.3	34.5	34.5	56.4	95 1	0	3
Homer Street,	8	9	350	315.1	39.3	35.0	295.8	93.6	7	5
Hooker,	13	14	580	476.5	36.6	34.0	449.0	94.1	56	51
Howard Street,	13	14	615	517.8	39.8	39.8	489.5	94.3	60	25
Myrtle Street, I. O.,	10	11	443	354.0	35.4	35.4	333.8	94.2	20	28
East Main Street, I. O.,	4	4	157	122.0	30.5	30.5	113.9	93.6	3	22
Jefferson Avenue,	9	10	433	379.3	42.1	37.9	355.4	93.5	25	9
School Street,	4	4	180	135.3	33.8	33.8	123.8	89.7	0	0
Sixteen Acres,	2	2	41	33.4	16.7	16.7	30.9	92.0	0	2
South Main Street,	11	12	469	383.5	34.8	31.9	360.2	93.6	21	26
State Street,	12	15	404	421.3	35.1	35.1	402.1	94.8	28	18
Strickland,	6	7	273	216.3	36.0	36.0	198.9	91.9	7	28
Tapley,	12	13	556	452.8	37.7	37.7	421.7	93.3	6	33
Wachogue,	1	1	23	16.1	28.0	28.0	15.2	94.3	0	8
White Street,	7	8	352	298.4	37.3	37.3	269.6	89.7	3	7
William Street,	10	11	464	427.0	38.9	35.5	399.2	93.4	39	29
Worthington Street,	12	13	549	381.4	34.6	34.6	353.6	92.6	62	31
Total,	312	343	12,518	10,804.6	40.1	53.2	10,133 5	92.9	625	507
Kindergartens,	14	27	1,083	567.4			472.5	82.2		
All Day Schools,	326	370	13,601	11,372.0			10,606.0	93.2		
Evening Schools,		90	2,275	1,240.7			943.9	78.4		

ANNUAL REPORT OF

TRUANT OFFICER, 1906.

To the School Committee:—

Number of visits to stores and factories,	66
Number of children found illegally employed,	100
Number of visits to school buildings,	1,915
Number of cases reported from schools,	11,045
As follows: For absence, 9,617; truancy, 518; tardiness, 366; "habitual absentees," 84; non-attendants, 22; school offenders, 10; evening school scholars, 428.	
Number of children found about the streets,	717
Upon investigation it was found that 392 were absentees; 100 were truants; 40 were tardy children; 41 were "habitual absentees"; 143 were non-attendants; and 1 was a school offender.	
Number of children found about the streets who were either taken to their homes or to school,	717
Of these 353 absentees, 50 truants, 36 "habitual absentees," 143 non-attendants, 2 tardy children, were taken to their homes; and 39 absentees, 50 truants, 38 tardy children, 5 "habitual absentees," 1 school offender, were taken to school.	
Number of visits to homes,	13,195
Divided as follows: For absentees, 11,165; truants, 666; tardiness, 421; "habitual absentees," 209; non-attendants, 208; school offenders, 14; evening school scholars, 512.	
Number of individual absentees,	3,735
Heads of families warned by letter that they would be prosecuted unless the children under their control were sent to school more regularly,	13
Heads of families prosecuted for neglecting to cause children under their control to attend school regularly,	4
Number of children not attending any school,	164
Of these 22 were reported from various sources and 142 were discovered by the attendance officers. These cases were disposed of as follows: 145 of the children entered school; 5 were sick and physician's certificates were received; 5 proved to be over age; 1 proved to be under age; and 8 left town.	

Number of "habitual absentees,"	91
Number of "habitual absentees" who were prosecuted, . .	3
Number of "habitual absentees" committed to Truant school, .	2
Number whose cases were continued from day to day for sentence,	1
Number of individual children whose names appear on the attendance officers' records of the year, ...	4,437

TABULATED RECORD OF TRUANCY.

SCHOOLS.	Pupils Truant.	Truancies.	Days of Truancy.	Prosecuted as Habitual Truants.	Committed to the Truant School.	Cases continued from day to day for Sentence.
Central High	2	3	2			
Technical High						
Alden Street						
Armory Street	7	9	5			
Barrows	10	10	5½			
Belmont Avenue						
Boston Road						
Brightwood	16	21	11½			
Buckingham	24	50	26			
Carew Street	16	25	17½	2		2
Central Street	14	26	24½	1		1
Charles Street	9	11	5			
Chestnut Street	54	100	69½	2	2	
Eastern Avenue	7	8	4½			
East Union Street	4	4	3½			
Five Mile Pond	3	4	2½			
Forest Park	8	8	12			
Glenwood						
Homer	4	4	2			
Hooker	38	55	35½	2	1	1
Howard	35	43	83	3	2	1
Indian Orchard Grammar	16	19	10½			
Indian Orchard Primary	4	6	3			
Jefferson Avenue	8	11	14½			
School Street						
Sixteen Acres						
South Main Street	10	16	10			
State Street	14	15	15			
Strickland	4	5	3½			
Tapley	5	7	4			
Wachogue						
White Street	1	1	½			
William Street	27	37	21			
Worthington Street	43	67	34½			
Private Schools	48	102	122½	5	3	2
Carew Street Special	1	3	2			
Between Schools	1	1	5			
Totals	433	671	505½	15	8	7

Nine pupils were truant from two schools, leaving 424 children who were truant during the year.

In presenting to you this, my annual report, there are several suggestions I should like to make. The medical inspection of our schools and the rapid increase of population, in recent years, have added greatly to our work. I find that we have come to the time when we are unable to carry on the work as in the past, and if some help cannot be furnished us we shall be obliged to leave undone some of the good things we have been doing.

Telephones in the different schools would be of great assistance to us, and we could do much more if some conveyance in carrying on the work could be furnished us.

I feel very much indebted to both public and parochial schools and to the various charitable organizations for their hearty co-operation. I wish to thank you for your kindly consideration during the year, and through you to extend my thanks to the teachers, principals, and to our superintendent, Mr. Gordy.

Respectfully,

JOHN G. TAYLOR,

Truant Officer.

December 28, 1906.

REPORT OF

SCHOOLHOUSE AGENT FOR 1906.

SPRINGFIELD, MASS., December 18, 1906.

To His Honor, the Mayor, and City Council.

GENTLEMEN :—I have the honor to present to you the report of Schoolhouse repairs and supplies furnished each of the School buildings for the year ending December 10, 1906.

SCHOOLHOUSE REPAIRS.

Alden Street School:		
Electric bells and fire signals,	$16 26	
Mason work and plastering repairs,	32 56	
Painting and glazing,	26 73	
General repairs,	50 24	
		$125 79
Armory Street School:		
Electric bells, fire signals, telephones,	$37 70	
Painting and glazing,	30 43	
Steam heat, boiler and plumbing,	76 42	
General repairs,	42 96	
		187 51
Barrows School:		
Electric light wiring and fixtures,	$108 00	
Electric bells and motor wiring,	57 49	
Bookcase,	19 23	
Steam heat and boiler repairs,	52 35	
Painting and glazing,	29 54	
General repairs,	61 26	
		327 87
Belmont Avenue School:		
Fire signal,	$10 00	
Mason work,	23 95	
General repairs,	55 88	
		89 83
Amount carried forward,		$731 00

Amount brought forward,		$731 00
Boston Road School:		
General repairs,		14 40
Brightwood School:		
Plumbing and repairs,	$96 60	
Painting and glazing,	28 78	
Steam heating and boiler repairs,	76 71	
General repairs,	47 60	
		249 69
Brightwood School (Old Building):		6 25
Buckingham School:		
Furniture and shades,	$26 10	
Furnace and ventilation repairs,	37 71	
Electric bells and fire signals,	38 35	
Painting and glazing,	55 25	
Plumbing repairs and fixtures,	62 31	
General repairs,	71 02	
		290 74
Carlisle School:		2 68
Carew Street School:		
Furniture,	$61 75	
Furnace repairs,	51 00	
Fire signal and electric bells,	25 95	
Painting and glazing,	42 10	
Plumbing repairs,	29 74	
General repairs,	69 18	
		279 72
Central Street School:		
Boiler grates and steam heating repairs,	$102 24	
Electric bells, fire signals, telephones,	60 79	
Furniture—new and repairs,	617 16	
Interior painting and glazing,	680 56	
Manual training alterations,	93 16	
Plumbing—new and repairs,	104 90	
Playground fences—material and labor,	137 03	
Repairing interior walls—mason work,	255 80	
Roof, gutter and conductor repairs,	29 21	
General repairs,	202 57	
		2,283 42
Amount carried forward,		$3,857 90

Amount brought forward,		$3,857 90
Charles Street School:		
Boiler grates and steam repairs,	$15 50	
Fire signals and bell repairs,	18 60	
Painting and glazing,	43 97	
Plumbing repairs,	14 15	
General repairs,	11 74	
		103 96
Chestnut Street School:		
Boiler, heating and ventilation repairs,	$195 64	
Furniture—4 rooms (special),	742 61	
Labor and material for 4 rooms (special),	431 01	
Electric bell, motor, light, telephone repairs,	241 97	
Plumbing and repairs,	127 57	
Painting interior walls and glazing,	273 95	
Manual training room floor,	92 17	
Roof, gutter and conductor repairs,	54 30	
General repairs,	162 02	
		2,321 24
Eastern Avenue School:		
Heating and ventilation repairs,	$43 20	
Plumbing repairs,	23 95	
Painting and glazing,	10 00	
Roof repairs,	12 50	
General repairs,	53 29	
		142 94
East Union Street School:		
Installation of ventilation system for class rooms and sanitaries,	$1,246 63	
Installation of water closets and sanitaries,	1,036 55	
Painting and glazing,	55 09	
Steam heating and boiler repairs,	101 03	
General repairs,	23 09	
		2,462 39
Elm Street School:		
General repairs,		36 03
Amount carried forward,		$8,924 46

Amount brought forward,		$8,924 46
Emery Street Storehouse:		
Gutters and conductors,	$38 88	
Window screens,	110 31	
Sundries—labor and material,	6 42	
		155 61
Five Mile Pond School:		
Carpenter labor and material,	$34 06	
Plumbing and repairs,	53 36	
Heater and connections,	24 65	
General repairs,	8 77	
		120 84
Forest Park School:		
Electric bells and fire signals,	$35 85	
Painting and glazing,	46 35	
Plumbing repairs,	29 70	
Roof repairs,	14 50	
Steam heating repairs,	145 74	
Smoke chimney extended,	101 46	
Weather strips for windows,	55 00	
General repairs,	112 40	
		541 00
Glenwood School:		
Fire signal,	$10 00	
Heater repairs,	13 14	
Interior walls kalsomined,	57 90	
General repairs,	11 30	
		92 34
High School (Central):		
Furniture,	$650 47	
Boiler grates and repairs,	445 25	
Furnishings and carpets,	274 72	
Electric bells and supplies,	19 26	
Plumbing and fixtures,	256 81	
Painting, varnishing and glazing,	93 80	
Steam heating and ventilation repairs,	53 74	
General repairs,	95 96	
		1,890 01
Amount carried forward,		$11,724 26

Amount brought forward,		$11,724 26
High School (Technical):		
Furnishings—hardware,	$94 02	
Furnishings for engine and boiler room,	112 68	
Guards for electric lights, etc.,	93 00	
Painting—labor and material,	108 02	
Furniture and shades,	92 91	
Bulletin boards,	66 11	
Oil and waste,	60 04	
Sundries—labor and material,	127 99	
General repairs,	36 70	
		791 47
Homer Street School:		
Boiler grates and heater repairs,	$65 69	
Fire signal and bell repairs,	19 90	
General repairs,	33 94	
		119 53
Hooker School:		
Electric light fixtures and installing,	$177 10	
Furniture and furnishings,	86 02	
Plumbing and repairs,	55 47	
Painting and glazing,	67 82	
Roof and gutter repairs,	40 85	
Smoke pipe, steam and boiler repairs,	305 36	
Telephone and bell repairs,	61 38	
Wall for coal bin,	125 00	
General repairs,	65 46	
		984 46
Howard Street School:		
Bookcases for class rooms,	$483 37	
Labor and material, manual training room,	176 18	
Furniture, furnishings and tools,	90 31	
Sundries—labor and material,	367 21	
		1,117 07
Amount carried forward,		$14,736 79

Amount brought forward,		$14,736 79
Indian Orchard—Myrtle Street School:		
Boiler and steam repairs,	$67 54	
Furniture and furnishings,	45 47	
Fire signals and electric bells,	31 46	
Painting and glazing,	65 05	
Plumbing repairs,	29 46	
General repairs,	33 17	
		272 15
Indian Orchard—Main Street School:		
Furnace repairs,	$27 70	
Fire signals and electric bells,	24 00	
Painting and glazing,	102 23	
Plumbing repairs,	39 02	
Window weather strips,	70 62	
General repairs,	15 91	
		279 48
Jefferson Avenue School:		
Fire signals and electric bells,	$32 60	
Furniture and furnishings,	61 38	
Roof repairs,	30 23	
Plumbing repairs,	50 32	
Painting and glazing,	78 58	
General repairs,	66 30	
		319 41
School Street School:		
Steam heating repairs,	$51 79	
Fire signal and electric bells,	23 58	
Plumbing repairs,	53 83	
General repairs,	38 58	
		167 78
Sixteen Acres School:		
Furnace repairs,	$43 55	
General repairs,	4 14	
		47 69
Amount carried forward,		$15,823 30

Amount brought forward,		$15,823 30
South Main Street School:		
Automatic door bolts and labor,	$32 75	
Boiler grates and repairs,	202 98	
Carpets, shades and rugs,	225 99	
Plumbing and steam repairs,	87 75	
Painting and glazing,	42 32	
General repairs,	42 86	
		634 65
State Street Grammar School:		
Furniture and shades,	$48 12	
Electric bells and lights,	22 59	
Manual training storehouse,	59 34	
Plumbing repairs,	162 63	
Painting and glazing,	139 29	
General repairs,	121 06	
		553 03
Strickland School:		
Plumbing repairs,	$45 10	
Roof and conductor repairs,	31 58	
Steam heating and boiler repairs,	90 25	
General repairs,	39 44	
		206 37
Tapley School:		
Furniture and furnishings,	$65 66	
Heating and ventilation repairs,	174 12	
Hardware for new building,	236 00	
Painting and glazing,	44 87	
Telephone and electric bell repairs,	34 78	
General repairs,	89 88	
		645 31
Wachogue School:		
General repairs,		18 40
West Union Street School:		
General repairs,		24 19
Amount carried forward,		$17,905 25

Amount brought forward,		$17,905 25
White Street School:		
Boiler grates and steam heat repairs,	$108 73	
Bookcases and cupboards,	66 39	
Balance on heating contract,	50 00	
Electric bells, motor and lights,	60 08	
Furniture,	362 82	
Sundries—labor and material,	105 29	
		753 31
William Street School:		
Boiler and steam heating repairs,	$166 54	
Electric bells and fire signals,	68 10	
Plumbing repairs,	40 71	
Painting and glazing,	25 44	
General repairs,	94 28	
		395 07
Worthington Street School:		
Boiler grates, steam heating and ventilation repairing,	$95 57	
Electric bells and fire signals,	41 93	
Material and labor for floors,	51 44	
Painting and glazing,	42 44	
Plumbing repairs,	56 75	
Roof repairs,	39 71	
General repairs,	80 77	
		408 61
Vernon Street Office Building:		
Electric light and bell work,	$113 38	
Furniture, shades, carpets, rugs,	262 45	
Painting, papering and glazing,	172 85	
Mason work and plastering,	35 23	
Sundries—labor and material,	78 94	
		662 85
Shop work,		5 44
Tools,		27 65
Sundries,		12 63
Clerical work,		180 00
Boiler insurance,		88 05
Liability insurance,		50 00
5 umbrella racks on hand,		20 57
Miscellaneous,		162 04
Total expenditures,		$20,671 47

By appropriation, ...	$17,500 00
By balance from Barrows School sanitaries account, . .	245 96
By balance from Howard Street Schoolhouse account, . .	289 24
Transfer from schools: city property account, ...	1,000 00
Special appropriation for 4 extra rooms, Chestnut Street School,	1,300 00
By receipts, ...	346 09
	$20,681 29
Total expenditures, . .	20,671 47
Balance unexpended, .	$9 82

SCHOOLS: CITY PROPERTY COMMITTEE.

Expenditures from December 10, 1905, to December 10, 1906.

Agent's and janitors' salaries, ...		$32,047 71
For shoveling snow from walks, ...		324 55
Alden Street School:		
Fuel, ...	$236 15	
Light, ...	82	
Sundries, furnishings, ...	9 72	
		246 69
Armory Street School:		
Fuel, ...	746 74	
Light, ...	24 08	
Sundries, furnishings, ...	11 79	
		782 61
Barrows School:		
Fuel, ...	$451 69	
Light, ...	18 04	
Sundries, furnishings, ...	2 83	
		472 56
Belmont Avenue School:		
Fuel, ...	$226 59	
Light, ...	3 14	
Sundries, furnishings, ...	2 41	
		232 14
Amount carried forward,		$34,106 26

Amount brought forward,		$34,106 26
Boston Road School:		
Fuel,	$122 17	
Sundries, furnishings,	2 56	
		124 73
Brightwood School:		
Fuel,	$293 69	
Light,	12 30	
Sundries, furnishings,	5 28	
		311 27
Buckingham School:		
Fuel,	$847 26	
Light,	114 36	
Sundries, furnishings,	11 62	
		973 24
Carew Street School:		
Fuel,	$624 06	
Light,	22 62	
Sundries, furnishings,	18 36	
		665 04
Central Street School:		
Fuel,	$944 61	
Light,	31 48	
Sundries, furnishings,	21 17	
		997 26
Charles Street School:		
Fuel,	$268 90	
Sundries, furnishings,	50	
		269 40
Chestnut Street School:		
Fuel,	$1,258 24	
Light,	324 28	
Sundries, furnishings,	6 19	
		1,588 71
Eastern Avenue School:		
Fuel,	$622 16	
Light,	6 86	
Sundries, furnishings,	11 32	
		640 34
Amount carried forward,		$39,676 25

Amount brought forward,		$39,676 25
East Union Street School:		
Fuel,	$442 43	
Light,	8 69	
Sundries, furnishings,	6 70	
		457 82
Elm Street School:		
Fuel,	$302 76	
Light,	164 01	
		466 77
Five Mile Pond School:		
Fuel,	$32 85	
Sundries, furnishings,	2 65	
		35 50
Forest Park School:		
Fuel,	$1,258 42	
Light,	115 97	
Sundries, furnishings,	29 73	
		1,404 12
Glenwood School:		
Fuel,	$278 21	
Sundries, furnishings,	5 10	
		283 31
High School (Central):		
Fuel,	$2,280 63	
Light,	833 08	
Sundries, furnishings,	37 27	
		3,150 98
High School (Technical):		
Fuel from January 1, 1906,	$3,393 99	
Light and power,	317 08	
Sundries, furnishings,	140 55	
		3,851 62
Homer Street School:		
Fuel,	$517 46	
Light,	5 74	
Sundries, furnishings,	5 34	
		528 54
Amount carried forward,		$49,854 91

Amount brought forward,		$49,854 91
Hooker School:		
Fuel,	$918 19	
Light,	58 46	
Sundries, furnishings,	16 48	
		993 13
Howard Street School:		
Fuel,	$1,020 69	
Light,	179 32	
Sundries, furnishings,	33 83	
		1,233 84
Indian Orchard—Myrtle Street School:		
Fuel,	$1,016 98	
Light,	114 73	
Sundries, furnishings,	32 67	
		1,164 38
Indian Orchard—Main Street School:		
Fuel,	$329 95	
Light,	63 22	
Sundries, furnishings,	9 10	
		402 27
Jefferson Avenue School:		
Fuel,	$397 27	
Light,	34 68	
Sundries, furnishings,	9 15	
		441 10
School Street School:		
Fuel,	$347 36	
Light,	6 82	
Sundries, furnishings,	1 61	
		355 79
Sixteen Acres School:		
Fuel,		69 40
South Main Street School:		
Fuel,	$863 63	
Light,	13 11	
Sundries, furnishings,	12 62	
		889 36
Amount carried forward,		$55,404 18

Amount brought forward,		$55,404 18
State Street School:		
Fuel,	$1,140 32	
Light,	344 87	
Sundries, furnishings,	10 45	
		1,495 64
Strickland School:		
Fuel,	$465 58	
Light,	24 64	
Sundries, furnishings,	1 50	
		491 72
Tapley School:		
Fuel,	$773 28	
Light,	26 23	
Sundries, furnishings,	11 78	
		811 29
Wachogue School:		
Fuel,		18 18
White Street School:		
Fuel,	$790 00	
Light,	24 05	
Sundries, furnishings,	109 57	
		923 62
William Street School:		
Fuel,	$595 96	
Light,	40 18	
Sundries, furnishings,	7 65	
		643 79
Worthington Street School:		
Fuel,	$647 98	
Light,	44 54	
Sundries, furnishings,	22 02	
		714 54
Vernon Street Office:		
Fuel,	$108 16	
Light,	65 57	
Sundries, furnishings,	3 75	
		177 48
Municipal Building:		
Charcoal,		12 50
Amount carried forward,		$60,692 94

Amount brought forward,		$60,692 94
Electric Power for Motor Service:		
Chestnut Street School,	$180 00	
Indian Orchard, Myrtle Street School,	99 96	
White Street School,	219 60	
Howard Street School,	242 00	
East Union Street School,	123 65	
		865 21
		$61,558 15

CURBING, MACADAM, GRADING WORK, WALKS, ETC.

Homer Street School, 4″ curbing front of school,	$140 96
State Street Grammar School, macadam for yard, and cartage and spreading,	51 19
Carew Street School, macadam for yard, and cartage and spreading,	71 64
Hooker School, macadam for yard, and cartage and spreading,	47 56
William Street School, macadam for yard, and cartage and spreading,	131 72
Strickland School, repairing walk,	3 80
Barrows School, relaying walk,	89 02
East Union Street School, 95 ft. conduit for electric wire,	23 75
Indian Orchard Grammar School, resurfacing walk,	45 00
Central Street School, grading, turfing, etc., of playground and front yard,	272 95
Five Mile Pond School, water connection,	36 31
Tapley School, macadam and labor,	34 84
South Main Street School, turf, soil and labor,	38 75
Technical High School, turf, soil and labor,	13 15
Barrows School, sidewalk, account sanitaries,	109 35
Worthington Street School, cartage of macadam,	1 35
Howard Street School, cutting down manhole and grading,	7 50
White Street School, walk, macadam and grading,	494 30
Amount carried forward,	$63,171 29

Amount brought forward,		$63,171 29
Advertising for bids on coal and charcoal, .	$8 70	
Coal inspection, ...	81 00	
Clerical work, ...	227 25	
Typewriting City Property Committee's report,	7 00	
Inspection of schools, City Property Committee, ...	6 70	
Roll-top cabinet, City Property Committee, .	23 00	
Record book, letter heads, letter file, postage, etc., City Property Committee, . .	11 30	
Blank books, order books, envelopes, etc., Schoolhouse Agent's Office, . . .	16 67	
Telephone service, Schoolhouse Agent, . .	16 64	
Premium on boiler insurance, . . .	265 20	
Removing ashes and rubbish from schools, .	14 30	
Cleaning Armory Street School, . . .	3 00	
Cleaning windows, Howard Street School, .	2 20	
Cleaning windows and floors, Forest Park School, ...	36 00	
Labor on Forest Park School grounds, . .	9 75	
Janitor and matron work at Forest Park School, ...	27 25	
Cleaning windows and floors, Central Street School, ...	29 31	
Janitor work at East Union Street School, .	14 75	
Cleaning floors at Technical High School, .	4 00	
Janitor work at Technical High School, .	46 88	
Ice, Vernon Street Office building, . .	26 61	
Placing stakes for grading, Chestnut Street School extension, ...	2 63	
Miscellaneous items, ...	19 18	
		899 32
Coal furnished Jerry Shea & Son, contractors for Howard Street School, . . .		151 84
		$64,222 45

By appropriation,	$60,000 00
By receipts and transfers,	5,580 00
Credit Jerry Shea & Son amount received for coal used at Howard Street School,	151 84
	$65,731 84
Less transfer to Schoolhouse Repairs account,	1,000 00
	$64,731 84
Total expenditures,	64,222 45
Balance unexpended,	$509 39

FUEL SUPPLIED TO SCHOOLS.

From December 10, 1905, to December 10, 1906.

	Coal (Pounds).	Charcoal (Bushels).
Alden Street School,	79,340	80
Armory Street School,	265,985	
Barrows School,	157,355	
Belmont Avenue School,	75,670	75
Boston Road School,	41,970	30
Brightwood School,	105,150	70
Buckingham School,	287,940	285
Carew Street School,	206,970	175
Central Street School,	329,160	125
Charles Street School,	93,320	40
Chestnut Street School,	443,975	200
Eastern Avenue School,	218,785	30
East Union Street School,	149,515	155
Elm Street School,	108,585	
Five Mile Pond School,	11,200	20
Forest Park School,	442,700	125
Glenwood School,	96,315	50
High School and State Street School,	1,345,820	
High School (Technical),	1,252,520	
Homer Street School,	180,765	75

	Coal (Pounds).	Charcoal (Bushels).
Hooker School,	318,380	150
Howard Street School,	363,500	60
Indian Orchard, Myrtle Street School,	364,230	100
Indian Orchard, Main Street School,	106,030	110
Jefferson Avenue School,	135,965	110
School Street School,	115,325	70
Sixteen Acres School,	23,210	
South Main Street School,	284,380	190
Strickland School,	162,785	90
Tapley School,	270,415	130
Wachogue School,	5,600	24
White Street School,	273,215	145
William Street School,	207,670	100
Worthington Street School,	226,915	160
Vernon Street Office,	37,000	30
Municipal Building,		100
Sixteen Acres School (one cord wood),		
	8,787,660	3,104

Expenditure for coal,	$24,430 14
Expenditure for charcoal,	379 64
Expenditure for wood,	6 50
Total,	$24,816 28

SUPPLIES FURNISHED JANITORS.

Alden Street School,	$9 18
Armory Street School,	25 76
Barrows School,	41 36
Belmont Avenue School,	5 46
Boston Road School,	4 45
Brightwood School,	44 42
Buckingham School,	30 15
Carew Street School,	33 86
Central Street School,	74 34
Charles Street School,	10 51
Chestnut Street School,	51 94

Eastern Avenue School,	$30 58
East Union Street School,	19 39
Elm Street School,	3 42
Emery Street School,	2 61
Five Mile Pond School,	5 58
Forest Park School,	87 44
Glenwood School,	5 07
High School (Central),	123 44
High School (Technical),	205 80
Homer Street School,	23 78
Hooker School,	57 76
Howard Street School,	106 28
Indian Orchard, Myrtle Street School,	33 01
Indian Orchard, Main Street School,	12 77
Jefferson Avenue School,	32 72
School Street School,	14 41
Sixteen Acres School,	6 45
South Main Street School,	35 79
State Street School,	49 46
Strickland School,	26 95
Tapley School,	53 94
Wachogue School,	3 19
White Street School,	32 81
William Street School,	43 31
Worthington Street School,	56 04
Vernon Street Office,	9 08
	$1,412 51

SUPPLIES FURNISHED BATH ROOMS.

Armory Street School,	$14 80	
Chestnut Street School,	12 64	
Hooker School,	24 13	
William Street School,	20 54	
Worthington Street School,	24 63	
		96 74
Total janitor and bath room supplies,		$1,509 25

EXPENDITURES FOR JANITORS' SUPPLIES.

Janitors' supplies and furnishings, ...	$1,537 53
Laundering towels, etc., ...	549 33
Repairing flags, ...	1 80
Express and freight charges, ...	7 65
	$2,096 31

Respectfully submitted,

H. L. DORMAN,
Schoolhouse Agent.

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

APPENDIX.

SCHOOL CALENDAR, 1907.

Winter Term begins	January 2, 1907
Winter Term ends	February 21, 1907
Spring Term begins	March 4, 1907
Spring Term ends	April 26, 1907
Summer Term begins	May 6, 1907
Summer Term ends	June 28, 1907
Fall Term begins	September 3, 1907
Fall Term ends	December 20, 1907

SCHOOL HOLIDAYS.

Washington's Birthday,	February 22
Patriots' Day,	April 19
Memorial Day,	May 30
Thanksgiving,	(Thursday and Friday)
New Year's	January 1, 1908

SCHOOL SIGNALS.

Two blows, five times, at 7.30 A. M.—
No morning session of High Schools.

Two blows, five times, at 8.15 A. M.—
No morning session of primary and grammar schools.

Two blows, five times, at 11.45 A. M.—
No afternoon session of primary and grammar schools.

In addition to the bell signals there will be two blasts of the steam whistle.

SCHOOL COMMITTEE FOR 1907.

WILLIAM E. SANDERSON, MAYOR, *ex officio.*

		TERM EXPIRES.
AT LARGE.—	EDWARD H. WILKINSON, 136 Mill Street.	Dec. 31, 1909.
WARD 1.—	WAYLAND V. JAMES, 27 Calhoun street.	Dec. 31, 1909.
WARD 2.—	GEORGE D. WESTON, 70 Main Street.	Dec. 31, 1909.
WARD 3.—	JAMES S. JUDD, 60 Mulberry Street.	Dec. 31, 1907.
WARD 4.—	LEONA M. PEIRCE, 247 Union Street.	Dec. 31, 1907.
WARD 5.—	MRS. NEWTON MORGAN, 7 Lincoln Street.	Dec. 31, 1907.
WARD 6.—	FREDERICK E. HOPKINS, 110 Mill Street.	Dec. 31, 1908.
WARD 7.—	FRANCIS M. BENNITT, 120 Sumner Avenue.	Dec. 31, 1908.
WARD 8.—	FRANK N. SEERLEY, 180 Westford Avenue.	Dec. 31, 1908.

CHAIRMAN,

WILLIAM E. SANDERSON, MAYOR, *ex officio.*

VICE-CHAIRMAN,

EDWARD H. WILKINSON.

SUPERINTENDENT OF SCHOOLS,

WILBUR F. GORDY,

Office, 47 Vernon street. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10 A. M. to 1 P. M.

SECRETARY,

BERTHA M. McCONKEY,

Office, 47 Vernon street. Office hours: School days, from 12.30 to 1.30 P. M.; Saturdays, from 10.30 A. M. to 1 P. M.

CHIEF CLERK,

FRED L. WARD,

Office, 47 Vernon street. Office hours: 8.30 A. M. to 5 P. M.; Saturdays, 8.30 A. M. to 1 P. M.

CLERKS,

EDITH BROWN,
CHARLES A. H. PARKER,
A. LEOTA PINNEY,
ANNA C. MURRAY.

SCHOOLHOUSE AGENT,

HIRAM L. DORMAN,

Office, 47 Vernon street. Office hours: 10.30 to 11.30 A.M. and 4 to 5 P.M.

TRUANT OFFICER,

JOHN G. TAYLOR,
H. A. KILLMER, ASSISTANT,
Office, 47 Vernon street. Office hour, 1 to 2 P. M.

SPECIAL COMMITTEES FOR 1907.

Finance.

THE MAYOR, MR. WILKINSON, and DR. HOPKINS.

Text-Books and Supplies.

DR. HOPKINS, MR. WILKINSON, and DR. SEERLEY.

Accounts.

MR. JUDD, DR. BENNITT, and MR. JAMES.

Central High School.

MR. WILKINSON, DR. BENNITT, and MISS PEIRCE.

Technical High School, Evening School of Trades, and Manual Training.

DR. SEERLEY, DR. HOPKINS, and MRS. MORGAN.

Ward One Group of Schools.

Carew street, Brightwood, Jefferson avenue, Armory street, and Chestnut street.

MR. JAMES.

Ward Two Group of Schools.

Hooker and Charles street.

DR. WESTON.

Ward Three Group of Schools.

Howard street.

MR. JUDD.

Ward Four Group of Schools.

State street, Worthington street, and School street.

MISS PEIRCE.

Ward Five Group of Schools.

Barrows, Tapley, Strickland, and East Union street.

MRS. MORGAN.

Ward Six Group of Schools.
South Main street and William street.
Dr. HOPKINS.

Ward Seven Group of Schools.
Central street, Forest Park, Alden street, White street, and Eastern avenue.
Dr. BENNITT.

Ward Eight Group of Schools.
Buckingham, Homer street, Indian Orchard Grammar and Primary.
Dr. SEERLEY.

Ungraded Schools.
Dr. WESTON, Mrs. MORGAN, and Mr. JAMES.

Evening Schools.
Mr. JUDD, Dr. BENNITT, and Mrs. MORGAN.

Kindergartens.
Dr. WESTON, Dr. BENNITT, and Mrs. MORGAN.

Penmanship.
Mr. JAMES, Miss PEIRCE, and Mr. JUDD.

Drawing and Draughting.
Dr. WESTON, Mr. JAMES, and Dr. SEERLEY.

Music.
Miss PEIRCE, Mrs. MORGAN, and Mr. JUDD.

Physical Culture and Hygiene.
Dr. SEERLEY, Dr. HOPKINS, and Dr. WESTON.

Sewing and Cooking.
Mrs. MORGAN, Miss PEIRCE, and Mr. JUDD.

Salaries.
Dr. BENNITT, Dr. SEERLEY, and Miss PEIRCE.

Repairs.
Mr. WILKINSON, Dr. WESTON, and Mr. JAMES.

New Buildings.
Dr. HOPKINS, Mr. WILKINSON, and Mr. JUDD.

LIST OF TEACHERS

Elected for the School Year Beginning September 4, 1906, with their Addresses, Corrected to January 1, 1907.

CENTRAL HIGH SCHOOL.

State Street, between Maple and School Streets.

William Orr, Principal,	30 Firglade avenue.
Esther W. Bates, English and History,	24 High street.
Mrs. Ida A. Burleigh, German,	82 Belmont avenue.
Winifred M. Crook, English,	68 Yale street.
Bertha T. Davis, History,	25 Sherman street.
J. Florence Ditmars, Latin,	14 Chestnut street.
Florence H. Frost, Mathematics,	66 Auburn street.
Laura C. Gilley, Science,	43 Edwards street.
Clarence M. Hall, Science,	69 Sherman street.
Ethel L. Keith, Latin,	107 Sherman street.
Howard C. Kelly, Science,	64 Temple street.
Allen H. Knapp, Head of Mathematics department,	86 Euclid avenue.
Jessie M. Law, Head of History department,	26 Greenleaf street.
Grace R. Lillibridge, French,	21 Rutledge avenue.
Walter V. McDuffee, Head of Classics department,	37 Spring street.
Helen M. McKinstry, Physical Director for Girls,	50 Madison avenue.
Florence Messer, English,	127 Mill street.
Marion C. Murphy, Mathematics,	100 Byers street.
Mary H. Perkins, English,	91 Spring street.
Ethel M. Power, Science,	236 Union street.
Sarah M. Pratt, Head of English department,	50 Madison avenue.
Mary L. Regal, Music Analysis and Harmony,	91 Elm st., W. Spfd.
Emilie de Rochemont, Latin and Greek,	115 Thompson street.

CENTRAL HIGH SCHOOL.—*Continued.*

Waterman S. C. Russell, Head of Science department,	79 Monmouth street.
Abbie M. Sanger, French,	203 High street.
Mabel E. Stock, Freehand Drawing,	90 Westminster street.
Julius Tuckerman, Head of Modern Language Department,	32 Continental ave.
Alice M. Wing, Latin,	46 School street.
Ellen A. Winslow, Mathematics,	59 McKnight street.
Edith M. Hawkes, School Secretary,	46 Forest Park ave.

TECHNICAL HIGH SCHOOL.

Elliott Street, near State Street.

Charles F. Warner, Principal,	41 Dartmouth street.
Burton A. Adams, Forging,	41 Irvington avenue.
Clifford S. Bragdon, Head of Mathematics department,	19 Harvard street.
Caroline Brown, Economics and Commercial Geography,	54 Byers street.
Mrs. Louise M. Bullman, Typewriting,	9 Beverly street.
John W. Burley, Machine Shop Practice,	Hunter place.
William G. de Coligny, French,	948 State street.
Amy L. Daniels, Head of Household Arts department,	257 Union street.
Allison R. Dorman, Commercial Subjects,	22 Belmont place.
Carlos B. Ellis, Head of Commercial department,	23 Spruceland avenue.
Edwin A. Finch, Head of Wood Working department,	65 Montrose street.
Edward E. Holton, Head of Machine Shop department,	43 Church street.
Edith A. Howland, Mathematics,	27 Pleasant street.
Fred L. Hunn, Wood Working,	44 Marble street.
Evered E. Kent, Commercial Subjects,	15 Wellesley street.
Alfred R. Lincoln, Chemistry and Physics,	26 High street.
Sarah E Lovell, Commercial English,	64 Temple street.
Grace MacLeod, Physics and German,	23 Leyfred terrace.
Sumner E. Marvell, Mathematics and Physics,	20 Massachusetts ave.

TECHNICAL HIGH SCHOOL.—*Continued.*

Frank E. Mathewson, Mechanical Drawing,	52 High street.
August E. Metzdorf, Physical Director for Boys, ...	37 Massachusetts ave.
Alice R. Pierce, English, ...	205 St. James avenue.
Eva Z. Prichard, French and German, .	25 Sherman street.
Mary L. Sawyer, Head of History department, ...	83 Bowdoin street.
Rose E. Sherman, Mathematics, . . .	27 Pleasant street.
Grace T. Smith, History and Latin, . .	Longmeadow.
Kate Stanley, Head of English department,	60 Sherman street.
Julia W. Strong, Commercial English and History, ...	56 Mulberry street.
Kate B. Swift, Commercial English (part time), ...	68 Temple street.
Emma E. Thrasher, Shorthand, . . .	56 Bay street.
Fred M. Watts, Drawing, ...	45 Florida street.
Mary E. Hart, School Secretary, . .	138 Marion street.

ALDEN STREET PRIMARY SCHOOL.

Alden Street, near junction of Walnut and Hancock Streets.

ROOM.		GRADE.	
4.	Elizabeth Wassum, Principal,	III.	12 Palmer avenue.
3.	Elizabeth Frothingham,	II.	313 Allen street.
2.	*Rachel J. Phelps,	I, II.	
1.	Carrie E. Coe,	I.	120 Harvard street.

*On leave of absence.—Gertrude H. Rand, substitute, 44 Mattoon Street.

ARMORY STREET PRIMARY AND GRAMMAR SCHOOL.

Armory Street, near its junction with Liberty Street.

ROOM.		GRADE.	
12.	Anna L. Rice, Principal,	VII.	35 High street.
12.	Elizabeth P. Knight, Assistant,	VII.	22 Temple street.
9.	Mary H. Garvey,	VI.	27 Congress street.
8.	Florence M. Abbe,	V, VI.	998 Liberty street.
7.	Martha J. Gillett,	V.	119 High street.
6.	Florence J. Wiley,	IV.	43 Huntington street.
5.	Maud M. Stoddard,	IV.	102 Bay street.

ARMORY STREET PRIMARY AND GRAMMAR SCHOOL.—*Continued.*

ROOM.		GRADE.		
4.	Winifred M. Scott,	III.	34	Wellesley street.
3.	Daisy P. Seymour,	II, III.	127	St. James avenue.
2.	Agnes D. Merwin,	II.	503	State street.
1½.	Mary A. Walker,	I.	71	Wilbraham avenue.
1.	Irma A. Ketchum,	I.	61	Catharine street.
	Mary E. Spooner,	Kindergartner,	612	State street.
	Violette I. Loring,	Asst. K'd'rg'tner,	184	Bowdoin street.

BARROWS GRAMMAR SCHOOL.

Oak Street, near its junction with Walnut Street.

ROOM.		GRADE.		
	Wellington Hodgkins, Principal,		75	Westford avenue.
10.	Clara D. Frost,	VII.	174	Buckingham street.
9.	Mary A. Howard,	VII.	388	Union street.
7.	Fannie A. Fiske,	VII.	75	Bay street.
8.	Elizabeth L. Higgins,	VI.	393	Union street.
6.	Mary H. McCarthy,	VI.	427	Union street.
5.	Mary F. Pomeroy,	VI.	427	Union street.
1.	Lucy A. Talmage,	VI.	480	Union street.
4.	Ruth E. McIntire,	V.	102	Hickory street.
3.	Ella F. Crooker,	V.	320	Central street.
2.	Clara M. Ingraham,	V.	56	Mapledell street.

BELMONT AVENUE PRIMARY AND GRAMMAR SCHOOL.

Corner Belmont Avenue and Keith Street.

ROOM.		GRADE.		
4.	Josephine C. Foster, Principal,	IV.	29	Locust street.
3.	Alice M. Bowen,	III.	437	Central street.
2.	Sara M. Waters,	II.	377	Hancock street.
1.	*Lillian M. Bartlett,	I.		

---

*On leave of absence.

BOSTON ROAD UNGRADED SCHOOL.

Boston Road, near Jasper Street.

Harriet E. Colburn, ... 20 Dexter street.

BRIGHTWOOD PRIMARY AND GRAMMAR SCHOOL.

Corner Plainfield Street and Abbe Avenue, Brightwood.

ROOM.		GRADE.	
1.	Allie G. Axtelle, Principal,	VI, VII.	45 Charles street.
1.	Ida E. Cobb, Assistant,	VI, VII.	57 Huntington street.
7.	Nora A. Donohue,	V.	32 Plainfield street.
10.	Mary E. Pelissier,	IV.	188 Union street.
9.	Sarah R. O'Brien,	III.	942 State street.
8.	Margaret G. Kirby,	II, III.	245 North street.
2.	Florence F. Champion,	II.	85 Alden street.
5.	Bertha A. Kuralt,	I.	57 Girard avenue.

BUCKINGHAM GRAMMAR SCHOOL.

Corner of Eastern Avenue and Wilbraham Road.

ROOM.		GRADE.	
	Arthur P. Irving, Principal,		77 Westford avenue.
12.	Fannie M. Moulton,	IX.	79 Marengo park.
11.	Margaret P. Higgins,	IX.	64 Thompson street.
10.	Mary A. Lewis,	IX.	139 King street.
9.	A. Caro Balcom,	VIII.	64 Thompson street.
8.	Frances L. Belcher,	VIII.	304 Front st., Chicopee.
7.	Grace M. Reed,	VIII.	79 Marengo park.
6.	F. Grace Burdick,	VII.	69 Buckingham street.
3.	Selena F. Benoit,	VII.	72 Armory street.
2.	Lena M. Brooks,	VII.	62 Yale street.
1.	Anna F. Rogers,	VII.	The Oaks, Thompson st.
4.	Florence V. Miller,	VI.	98 Elliott street.
5.	May T. Grout,	VI.	59 Sherman street.

CAREW STREET PRIMARY AND GRAMMAR SCHOOL.

Carew Street, near Main Street.

ROOM.		GRADE.	
13.	Mary E. Daboll, Principal,	V.	27 Madison avenue.
13.	Lillian E. Abbott, Assistant,	V.	Mittineague.
12.	Lena M. Tewkesbury,	V.	318 Springf'd st., Chic.
6.	Grace E. Nichols,	IV.	100 Carew street.
7.	Ella J. Jones,	IV.	143 Carew street.
5.	Fannie E. Gibbs,	III, IV.	51 Park ave., W. Spfd.
2.	Carrie E. Cobb,	III.	37 Oakland street.

CAREW STREET PRIMARY AND GRAMMAR SCHOOL.—*Continued.*

ROOM.		GRADE.	
4.	Agnese C. Ludden,	III.	143 North street.
3.	Fannie G. Kimball,	II.	14 Prospect street.
11.	Ella E. Taintor,	II.	198 Main, Easthampton.
1.	Marcia L. Palmer,	II.	291 St. James avenue.
8.	Mabel F. Warren,	I.	10 Rutledge avenue.
9.	Georgietta Hooker,	I.	10 Rutledge avenue.
14.	Mary M. Quirk,	I.	122 Magazine street.
10.	Frances E. Cheney,	Special Preparatory.	20 Myrtle terrace.

CENTRAL STREET PRIMARY AND GRAMMAR SCHOOL.

Corner of Central and Spruce Streets.

ROOM.		GRADE.	
	John L. Riley, Principal,		108 Florida street.
13.	Susie E. Jewell,	IX.	10 Myrtle terrace.
12.	Alice G. Davenport, Subst'ute,	VIII.	Longmeadow.
10.	Emma R. Chapin,	VII.	70 Catharine street.
9.	Carrie M. Poor,	VII.	259 Central street.
8.	Rebecca L. Harding,	VI.	388 Union street.
7.	Mary A. Curtis,	VI.	115 Florence street.
6.	Sara E. Chase,	V.	207 Belmont avenue.
5.	Mabelle A. Wilson,	V.	25 Orleans street.
4.	Clara A. Farrell,	IV.	115 Alden street.
3.	Mrs. Hattie M. C. Schoepf,	III.	235 Central street.
2.	Lida E. Noyes,	II.	402 Central street.
1.	Anne L. Kemp,	I.	18 York street.
	Anna T. Shaw,	Kindergartner,	47 Windsor street.
	Edith B. Tower,	Asst. Kindergartner.	63 Spring street.

CHARLES STREET PRIMARY SCHOOL.

Franklin Street, head of Charles Street.

ROOM.		GRADE.	
4.	Mrs. M. Alice Williams, Principal,	III, IV.	55 Morgan street.
3.	Emma M. Blodgett,	II.	20 Massachusetts ave.
2.	Edna J. Dennon,	I, II.	979 Worthington street.
1.	Mary F. Healy,	I.	Mittineague.

CHESTNUT STREET GRAMMAR SCHOOL.

Chestnut Street, near Prospect Street.

ROOM.		GRADE.		
	Albert Candlin, Principal,		96	Firglade avenue.
8.	Mary C. Roberts,	IX.	13	Clifton avenue.
9.	Ella J. Ross,	IX.	75	Auburn street.
7.	Helen S. Ordway,	IX.		The St. James.
6.	M. Louise Strong,	IX.	62	High street.
1.	Kate W. Smith,	VIII.	91	Spring street.
10.	Ida A. Ross,	VIII.	75	Auburn street.
2.	Grace A. Puffer,	VIII.	25	Greenwich street.
5.	Jennie E. Cooley,	VIII.	18	Harvard street.
4.	Mrs. Jean M. Ashton,	VIII.	912	State street.
3.	Maude Gray,	VIII.	37	Parkwood street.
14.	Helen A. Buck,	VIII.	127	Jefferson avenue.
17.	Ada B. Judson,	VII.	207	Belmont avenue.
16.	Clara H. Phillips,	VII.	49	Northampton ave.
12.	Cora A. Stanton,	VII.	62	Bancroft street.
18.	Harriet M. Gillett,	VII.	25	Greenwich street.
19.	Eva Collins,	VII.	40	Maple street.
15.	Martha R. Devine,	VII.	518	Chestnut street.
11.	Sarah E. Burrall,	VII.	307	Chestnut street.
22.	Anna L. Boeker,	VI.	45	Holyoke street.
21.	Ida M. Craig,	VI.	90	Bowles street.
13.	Nina M. Marsh,	VI.		Agawam.
20.	M. Bertha Holmes,	VI.	482	Chestnut street.
23.	Elsie M. Crosier,	VI.		Mittineague.
24.	Mary L. Preston,	V.	267	Bay street.
25.	Mary B. Morse,	V.	88	Carew street.
26.	Katherine A. Lane,	V-IX.	289	State street.

EASTERN AVENUE PRIMARY AND GRAMMAR SCHOOL.

Corner Eastern Avenue and Alden Street.

ROOM.		GRADE.		
6.	Mary E. O'Neill, Principal,	IV.	46	Linden street.
6.	Mabel A. Pease, Assistant,	IV.	132	Garfield street.
5.	Jessie B. Newton,	IV.	323	Eastern avenue.
4.	Della B. Knappe,	III.	11	Myrtle street.
2.	M. Helen Newton,	I, II.	323	Eastern avenue.
1.	Edna Hill,	I.	250	Alden street.
	May L. Price,	Kindergartner,	15	Mattoon street.
	Elizabeth Bangs,	Asst. Kindergartner.	30	High street.

EAST UNION STREET PRIMARY AND GRAMMAR SCHOOL.

East Union Street, east of Hancock Street.

ROOM.		GRADE.	
8.	Laura L. Boice, Principal,	IV.	14 Chestnut street.
8.	Frances C. Pease, Assistant,	IV.	28 Clarendon street.
5.	Mrs. Ida Burdick,	III.	22 Quincy street.
3.	Adella F. Whitworth,	III.	105 Yale street.
2.	Harriette V. Flagg,	II.	31 Westford avenue.
7.	Nellie M. Peck,	I.	23 Oak street.
1.	Bessie I. Kelley,	I.	191 Main st., Merrick.
6.	Louise Comstock,	Grammar Prep.,	The Oaks, Thompson st.
	Mrs. M. Louise Stock,	Kindergartner,	10 Wilbraham avenue.
	Anna E. Nield,	Asst. Kindergartner,	Indian Orchard.

FIVE MILE POND UNGRADED SCHOOL.

At Dimmock's Corner, Boston Road.

Ellen A. O'Keefe,	67 Bliss street.

FOREST PARK PRIMARY AND GRAMMAR SCHOOL.

Garfield Street, near Belmont Avenue.

ROOM.		GRADE.	
	George E. Foss, Principal,		82 Garfield street.
4.	Annie M. Whelan,	IX.	45 Huntington street.
3.	Ethel G. Westcott,	IX.	218 Sumner avenue.
8.	Louise S. Steinway,	IX.	493 Sumner avenue.
20.	Ethel W. McGregory,	V-IX.	24 Leyfred terrace.
2.	Robenia F. Anthony,	VIII.	289 State street.
1.	Nellie J. Campbell,	VIII.	40 Maple street.
17.	Mae L. Thomas,	VII.	493 Sumner avenue.
18.	Lina M. Greenlaw,	VII.	60 Spring street.
10.	Ella C. Emerson,	VII.	519 Belmont avenue.
16.	Florence M. Morrison,	VII.	Thompsonville, Ct.
15.	Katherine E. Brosnan,	VI.	139 Spring street.
14.	Helena I. Duckworth,	VI.	204 Forest Park ave.
13.	Mabel K. Mills,	V.	27 Garfield street.
19.	Florence A. Cooper,	V.	44 Firglade avenue.
12.	*Mrs. W. C. Hart,	III-IV.	
11.	Alice A. Johnson,	II.	57 Hall street.

---

*On leave of absence.—Grace F. Crockett, Substitute, 441 Sumner avenue.

FOREST PARK PRIMARY AND GRAMMAR SCHOOL.—*Continued.*

ROOM.		GRADE.	
9.	Lillian G. Howe,	I.	38 Byers street.
	Grace Hall Bowers,	Kindergartner,	33 Mountainview st.
	J. Selma Schniewind,	Asst. Kin'g'tner,	280 Forest Park ave.

GLENWOOD SCHOOL.

Corner Springfield and Armory Streets.

*Mary E. Loud.
Ruby T. Knight, 198 Carew street.

---

*On leave of absence.

HOMER STREET PRIMARY AND GRAMMAR SCHOOL.

Homer Street, corner of Wilbraham Road.

ROOM.		GRADE.	
8.	Ellen T. Sullivan, Principal,	V.	26 Willard avenue.
8.	Evelyn M. Proctor, Assistant,	V.	84 Catharine street.
7.	Minnie R. Donaldson,	V.	19 Westford avenue.
5.	Mary L. Ryan,	IV.	141 Union street.
4.	Alice M. Ketchum,	III, IV.	61 Catharine street.
3.	Lucretia J. Barber,	III.	10 Wilbraham avenue.
6.	Annie E. Smith,	II.	33 Clifford street.
1.	Gertrude Armington,	I, II.	19 Westford avenue.
2.	Isabel E. McIntire,	I.	102 Hickory street.
	Lulu A. J. Allen,	Kindergartner,	40 Church street.
	Lola J. Macartney, Asst.	Kindergartner,	158 Walnut street.

HOOKER PRIMARY AND GRAMMAR SCHOOL.

Main Street, between Greenwood and Tenth Streets.

ROOM.		GRADE.	
12.	Margaret C. Bickett, Principal,	VI.	27 Church street.
12.	Elizabeth M. Ford, Assistant,	VI.	125 North Main street.
11.	Effie M. Wilcox,	V.	148 Carew street.
10.	Mary G. Walsh,	V.	81 Alexander street.

HOOKER PRIMARY AND GRAMMAR SCHOOL.—*Continued*

ROOM.		GRADE.		
9.	Mabel L. Welcker,	V.		So. Hadley Falls.
8.	Mrs. Anna F. Gammons,	IV.	48	Osgood street.
7.	Susan B. Pendleton,	IV.	22	Kenwood park.
6.	Gertrude B. Chaffee,	III.	44	Jackson street.
5.	Harriet E. Brown,	III.	43	Seventh street.
4.	Agnes Howard,	II.	31	Main street.
3.	Josephine M. Bartlett,	II.	43	Seventh street.
2.	Annie A. Smith,	I.	30	Myrtle terrace.
1.	Ida J. Rich,	I.	43	Seventh street.
13.	Jennie S. Perry,	Gram. Preparatory,	124	Carew street.
	Clara M. Lewis,	Kindergartner,	44	Spring street.
	Anna R. Quilty,	Asst. Kindergartner,	31	Palmer avenue.
	Grace B. Hamman,	Asst. Kindergartner,	73	Sherman street.

HOWARD STREET PRIMARY AND GRAMMAR SCHOOL.

South side of Howard Street.

ROOM.		GRADE.		
	John R. Fausey, Principal,		2	Lincoln street.
2.	Ione L. Foss,	VII.	20	Myrtle terrace.
1.	Mary F. Osborne,	VII.	20	Myrtle terrace.
3.	Pearl A. Southmayd,	VI, VII.	1272	State street.
4.	Elizabeth J. Steele,	VI.	103	Florida street.
5.	Ethel A. Ronaldson,	VI.	20	Mattoon street.
6.	Elizabeth K. Woodworth,	V, VI.	107	Florida street.
7.	Olive A. Rainey,	V.	57	Grand street.
8.	Maude M. Cole,	V.	13	Osgood street.
9.	Mrs. Bessie B. Vaughan,	IV.	265	Belmont avenue.
10.	Helen E. Lewis,	III.	60	Main st., Westfield.
12.	Mary E. Bugbee,	II.	9	Adams street.
13.	Agnes B. Tyne,	I.	32	Grosvenor street.
11.	Fannie Hall,	Gram. Preparatory,	22	Catharine street.
	Ora L. Batchelder,	Kindergartner,	52	Cornell street.
	Ida M. Bradley,	Asst. Kindergartner,		Bay road.

INDIAN ORCHARD PRIMARY AND GRAMMAR SCHOOL.

Corner Worcester and Myrtle Streets, Indian Orchard.

ROOM.		GRADE.	
	Dwight Clark, Principal,		Indian Orchard.
6.	Etta Sinsabaugh,	VIII, IX.	289 State street.
7.	Effie A. Merrill,	VII.	38 Maple street.
5.	Lilla G. Richmond,	VI.	Indian Orchard.
8.	Fidelia M. Warriner,	V.	Indian Orchard.
9.	Mary L. Wight,	V.	Indian Orchard.
10.	Susan I. Merrill,	IV.	22 Catharine street.
3.	Anne M. O'Keefe,	III.	67 Bliss street.
2.	Theresa M. Gilday,	II.	115 Florence street.
1.	Alice E. Childs,	I.	76 Montrose street.
	Mary A. Bassett,	Kindergartner,	Indian Orchard.
	Ethel W. Packard,	Asst. Kindergartner,	Indian Orchard.

INDIAN ORCHARD PRIMARY SCHOOL.

Main Street, Indian Orchard.

ROOM.		GRADE.	
6.	Mrs. Harriet A. White, Principal,	IV.	968 State street.
3.	Mrs. Mary E. Richardson,	III.	Indian Orchard.
1.	Grace E. Lewis,	I.	408 St. James avenue.
	Mary A. Bassett,	Kindergartner,	Indian Orchard.
	Ethel W. Packard,	Asst. Kindergartner,	Indian Orchard.

JEFFERSON AVENUE PRIMARY AND GRAMMAR SCHOOL.

Corner Jefferson Avenue and North Street.

ROOM.		GRADE.	
9.	Amie M. Billings, Principal,	IV.	45 Holyoke street.
9.	Ina M. Ballou, Assistant,	IV.	Indian Orchard.
6.	Grace G. Henry,	IV.	25 Sherman street.
5.	E. Luise B. Mache,	III.	838 Worthington street.
4.	Emma L. Schrader,	III.	28 Rutledge avenue.
7.	Mamie A. Barnum,	II.	Indian Orchard.
3.	Georgia Houston,	II.	8 Nonotuck av., Chic.
2.	Minnie H. Armstrong,	I, II.	221 North Main street.
1.	Harriet P. Dow,	I.	Round Hill.
8.	Helen M. Bates,	I.	33 Mountainview st.
	Maud E. Burnham,	Kindergartner,	157 Bowdoin street.
	Ethel F. Graves,	Asst. Kindergartner,	33 Mattoon street.

SCHOOL STREET PRIMARY AND GRAMMAR SCHOOL.

Corner School and High Streets.

ROOM.		GRADE.	
4.	Helen R. Davidson, Principal,	V,VI.	31 Thompson street.
3.	Mary E. Holcombe,	IV, V.	54 Princeton street.
2.	*Sara C. Stiles,	II, III.	
1.	Susan J. Milliman,	I, II.	134 Westminster street.

---

*On leave of absence.—Ruth C. Clapp, Substitute. 54 Princeton Street.

SIXTEEN ACRES UNGRADED SCHOOL.

Near Sixteen Acres Pond.

Mary E. Coburn,	R. F. D. No. 2, Ludlow.
Mrs. Alice G. Parsons, Sub., Asst.,	R. F. D. No. 2, Ludlow.

SOUTH MAIN STREET PRIMARY AND GRAMMAR SCHOOL.

Corner Main Street and Acushnet Avenue.

ROOM.		GRADE.	
12.	Elizabeth A. Beggs, Principal,	V.	100 William street.
12.	Muriel A. Jillson, Assistant,	V.	27 Garfield street.
8.	Edna A. Post,	IV, V.	27 Garfield street.
9.	Nellie A. Ryan,	IV.	141 Union street.
7.	Elizabeth O. Stevens,	III, IV.	284 Walnut street.
6.	Caroline E. Comins,	III.	12 Palmer avenue.
4.	Anna E. Alderman,	II, III.	301 Dickinson street.
5.	Mabel L. Bradford,	II.	6 Warriner avenue.
1.	Edith B. Robson,	II.	494 Hancock street.
3.	Marie C. Naumann,	I.	187 Pine street.
2.	Ella A. Maryott,	I.	39 Wendell avenue.
10.	Chloe St. John,	Gram. Preparatory,	30 High street.
	Alice H. Gilbert,	Kindergartner,	52 Avon place.
	Alice E. Allen, Sub., Asst.	Kind'gartner,	38 Rutledge avenue.

STATE STREET GRAMMAR SCHOOL.

State Street, between Maple and School Streets.

ROOM.		GRADE.	
	Harriet C. Emerson, Principal,		27 Pleasant street.
1.	Celia M. Chase,	IX.	Longmeadow.
2.	Mary S. Smith,	IX.	109 Buckingham street
3.	H. Czarina Stacy,	VII-IX.	730 State street.
5.	Frances B. M. Willgoose,	IX.	35 Spring street.
7.	Mary G. Shea,	IX.	384 Union street.
6.	Clara B. MacDonald,	IX.	37 Spring street.
16.	Jennie E. Livermore,	VII-IX.	42 Terrence street.
8.	Josephine E. Travis,	VIII.	41 Spring street.
9.	Mary E. Richardson,	VIII.	89 Walnut street.
10.	Effie F. Heath,	VIII.	43 School street.
13.	Minnie C. Potter,	VIII.	41 Spring street.
14.	Helena E. Hartshorn,	VIII.	43 School street.
15.	May E. Seeley,	VIII.	50 Ingersoll grove.
4.	Edith S. Roswell,	VII.	59 Sherman street.

STRICKLAND PRIMARY AND GRAMMAR SCHOOL.

Corner Oak and Union Streets.

ROOM.		GRADE.	
6.	Georgiana A. Hodskins, Prin.,	IV.	42 Cornell street.
6.	Lillian Nield, Assistant,	IV.	Indian Orchard.
3.	Mrs. M. Etta Adams,	IV.	75 Pynchon street.
5.	Margaret E. Cruse,	III.	90 Westminster street.
4.	Kate L. Colton,	II.	627 State street.
2.	S. Elizabeth Beattie,	I, II.	1085 Worthington street.
1.	Helen S. Garrett, Substitute,	I.	40 Morris street.

TAPLEY PRIMARY AND GRAMMAR SCHOOL.

Corner Bay and Sherman Streets.

ROOM.		GRADE.	
14.	Addie McKechnie, Principal,	VI.	912 State street.
14.	Louise E. Bull, Assistant,	VI.	47 Leyfred terrace.
8.	Grace E. Rogers,	VI.	52 Thompson street.
7.	Mary Marsh,	V.	145 Spring street.
6.	Edith A. Grant,	V.	4 Nonotuck av., Chic.
4.	Gertrude E. Sheldon,	IV.	54 Buckingham street.

TAPLEY PRIMARY AND GRAMMAR SCHOOL.—*Continued.*

ROOM.		GRADE.	
13.	Edith A. Harvey,	IV.	29 Florida street.
5.	*Ida C. Flagg,	III, IV.	
1.	Bertha Crocker,	III.	142 Westminster street.
3.	Jennie C. Prentice,	II, III.	30 Thompson street.
2.	Gertrude E. Mullins,	II.	527 State street.
10.	Ida E. Toole,	I.	54 Catharine street.
9.	Emily F. Ellis,	I.	158 Sherman street.
	M. Josephine Barry,	Kindergartner,	10 Wilbraham avenue.
	Alice E. Loynes,	Asst. Kindergartner,	138 Harvard street.

---

*On leave of absence.—Mary A. Lynch, Substitute, 80 Woodside terrace.

WACHOGUE UNGRADED SCHOOL.

On road leading from U. S. Watershops to Hampden.

Lula L. F. Spiller, 110 Keith street.

WHITE STREET PRIMARY AND GRAMMAR SCHOOL.

White Street, between Dawson Avenue and Buckler Street.

ROOM.		GRADE.	
2.	Julia E. Steere, Principal,	VI.	54 Madison avenue.
2.	Mary E. Lee, Assistant,	VI.	145 Magazine street.
10.	Grace W. Osborne,	V.	54 Madison avenue.
7.	Eva Sadd,	IV, V.	Thompsonville, Ct.
8.	Susan O. Pease,	IV.	50 Quincy street.
5.	Minnie M. Gutberlet,	III.	98 Adams street.
9.	Margaret A. O'Brien,	III.	23 Myrtle street.
6.	Florence E. Randall,	II.	65 White street.
1.	Evelyn H. Taylor,	II.	207 Belmont avenue.
4.	Eva H. Raymond,	I.	37 Spring street.
3.	Grace M. Bailey,	I.	East Longmeadow.

WILLIAM STREET PRIMARY AND GRAMMAR SCHOOL.

William Street, off Main Street.

ROOM.		GRADE.	
12.	Louise F. Elwell, Principal,	IV.	287 Chestnut street.
12.	May E. Driscoll, Assistant,	IV.	22 Norwood street.
11.	Ellen E. Morrissey,	III, IV.	Indian Orchard.

WILLIAM STREET PRIMARY AND GRAMMAR SCHOOL.—*Continued.*

ROOM.		GRADE.	
3.	Mrs. Lillie M. Speer,	III.	364 Belmont avenue.
4.	Mrs. Cora E. Chapin,	III.	12 Brookline avenue.
6.	Sara B. Hamilton,	II.	107 Thompson street.
7.	Minnie J. Fitzgerald,	II.	20 Acushnet avenue.
10.	Fannie A. Lewis,	I.	194 High street.
8.	Florence B. Humpage,	I.	847 Main street.
9.	Anna L. Gilmartin,	I.	33 Florence street.
5.	Mabel Clary,	Grammar Preparatory,	263 Central street.
	A. Archer Hunt,	Kindergartner,	Longmeadow.
	Edith L. Upson,	Asst. Kindergartner,	152 Marion street.

WORTHINGTON STREET PRIMARY AND GRAMMAR SCHOOL.

Worthington Street, near Spring Street.

ROOM.		GRADE.	
	Arthur T. Talmadge,	Principal,	317 St. James avenue.
11.	Maud Baldwin,	VII.	40 Temple street.
10.	Gertrude E. Smith,	VI.	38 Maple street.
9.	Lillian K. Munson,	V, VI.	18 Lillian street.
8.	Florence G. Stevens,	V.	29 Massasoit street.
7.	Carolyn M. Lewis,	IV.	236 Union street.
5.	*Susan L. White,	III.	
4.	Bertha M. Wilson,	II.	Thompsonville, Ct.
3.	Ruth M. French,	II.	6 Pomeroy ter., N'h'pton.
2.	Sarah C. Edgar,	I.	70 Catharine street.
1.	Martha N. Story,	I.	298 Elm st., Westfield.
12.	Kathleen F. O'Connor,	Illiterate Minors,	46 Ringgold street.

---

*On leave of absence.—Lillian A. Fisk, Substitute, 142 Elm street, W. Springfield.

KINDERGARTENS.

ARMORY STREET.—Mary E. Spooner, 612 State street.
Violette I. Loring, Assistant, 184 Bowdoin street.

CENTRAL STREET.—Anna T. Shaw, 47 Windsor street.
Edith B. Tower, Assistant, 63 Spring street.

Eastern Avenue.—May L. Price, 15 Mattoon street.
Elizabeth Bangs, Assistant, 30 High street.

East Union Street.—Mrs. M. Louise Stock, 10 Wilbraham avenue.
Anna E. Nield, Assistant, Indian Orchard.

Forest Park. Grace Hall Bowers, 33 Mountainview street.
J. Selma Schniewind, Assistant, 280 Forest Park avenue.

Homer Street.—Lulu A. J. Allen, 40 Church street.
Lola J. Macartney, Assistant, 158 Walnut street.

Hooker.—Clara M. Lewis, 44 Spring street.
Anna R. Quilty, Assistant, 31 Palmer avenue.
Grace B. Hamman, Assistant, 73 Sherman street.

Howard Street.—Ora L. Batchelder, 52 Cornell street.
Ida M. Bradley, Assistant, Bay road.

Indian Orchard.—Mary A. Bassett, Indian Orchard.
Ethel W. Packard, Assistant, Indian Orchard.

Jefferson Avenue.—Maud E. Burnham, 157 Bowdoin street.
Ethel F. Graves, Assistant, 33 Mattoon street.

South Main Street.—Alice H. Gilbert, 52 Avon place.
Alice E. Allen, Substitute Assistant, 38 Rutledge ave.

Tapley.—M. Josephine Barry, 10 Wilbraham avenue.
Alice E. Loynes, Assistant, 138 Harvard street.

William Street. A. Archer Hunt, Longmeadow.
Edith L. Upson, Assistant, 152 Marion street.

COOKING SCHOOLS.

Chestnut Street.—Amanda B. Petty, 529 Chestnut street.

Buckingham }
Forest Park. } —Flora C. Studley, 19 Yale street.

State Street. Laura C. Buffum, 11 Myrtle street.

SUPERVISORS AND SPECIAL TEACHERS.

SUPERVISOR OF PRIMARY SCHOOLS AND KINDERGARTENS.

Bertha M. McConkey, 10 Monmouth street.

Office Hours: School days, 12.30 to 1.30 P. M., Saturdays, 10.30 A. M. to 1 P. M.; 47 Vernon Street.

SUPERVISOR OF DRAWING.—Fred H. Daniels, 87 Monmouth street.

ASST. SUPERVISOR OF DRAWING. Martha Webber, 18 Hawley street.

SUPERVISOR OF MUSIC.—John F. Ahern, The St. James.

ASST. SUPERVISOR OF MUSIC.—Fannie B. Chamberlain, 106 Amherst street.

SUPERVISOR OF PENMANSHIP.—Anna E. Hill, The St. James.

SUPERVISOR OF NATURE STUDY.—Fannie A. Stebbins, 480 Union street.

SUPERVISOR OF MANUAL TRAINING.—Michael W. Murray, 18 South Park avenue, Longmeadow.

SUPERVISOR OF PHYSICAL TRAINING—Dr. J. Anna Norris, 148 Central street.

TEACHER OF SEWING.—Mrs. E. C. Norton, 64 Thompson street.

ASST. TEACHERS OF SEWING. Sarah H. Gardiner, 20 Dartmouth street; Alice H. Wyckoff, 52 Warner place.

TEACHERS OF MANUAL TRAINING IN GRAMMAR GRADES.—Evelyn Winslow, 343 Bay street; Caroline E Kilbon, 41 Orleans street; George S. Reed, 26 Montmorenci street; Arthur B. Leach, 83 Monmouth street; Helen Ekstrom, 42 Crystal avenue.

GENERAL SUBSTITUTES.

Mrs. Clara E. Harrington,	541 Main street.
Cora E. Myers,	1035 State street.

EVENING SCHOOLS.

HIGH. Carlos B. Ellis, Principal.

Mrs. A. J. C. Beach, Selena F. Benoit, Katherine E. Brosnan, Mrs. Louise M. Bullman, William G. de Coligny, Allison R. Dorman, Helena E. Hartshorn, Georgia E. Hodskins, Howard C. Kelly, Evered E. Kent, Theresa M. Lane, George M. Leonard, Alfred R. Lincoln, Mary H. Perkins, Grace A. Puffer, John W. Wood.

Preparatory Class.—Nellie J. Campbell, Eva Collins, Julia E. Steere.

Chestnut Street.—Wellington Hodgkins, Principal.
Caroline M. Arbus, Louise M. Barnes, Helen A. Buck, Sarah E. Burrall, Nora A. Donohue, Louise F. Elwell, M. Bertha Holmes, Mrs. Anna L. Jackson, Joseph L. Johnson, Mrs. Lillie H. Morrow, Cora E. Myers, Kathleen F. O'Connor, Louis Pava, Edith B. Robson, Elizabeth Ronayne, Mrs. Lillie M. Speer, Mrs. Alice M. Spence, Mrs. Harriet E. Todd.

Howard Street.—Frank G. Hodskins, Principal.
Mrs. A. Etta Adams, Mrs. Elizabeth F. Bogart, Mrs. Stella P. Brown, S. F. Chester, Margaret E. Cruse, Mary A. Curtis, Agnes Howard, P. F. Mansfield, Mrs. C. F. Martensen, Mrs. Jennie G. Mitchell, Marie C. Naumann, Silvio Origo, Olive A. Rainey, Eva H. Raymond, Lucy A. Richardson, Mrs. Flora T. Tyler.

Indian Orchard.—Dwight Clark, Principal.
Isabella Greenaway, Mrs. Mabel M. Hemenway, Mrs. Jean R. Irwin, Ethel W. Packard, Lilla G. Richmond.

Indian Orchard Primary Building. Mrs. Harriet A. White, Principal.
Minnie R. Donaldson, Mrs. Grace E. Hawkins, Mrs. Bertha S. Keyes, Mrs. Georgia G. Muir, Anna E. Nield, Lillian H. Nield, Mrs. Mary E. Richardson, Mrs. Anna H. Ross, Emma L. Schrader.

Drawing.—Mabel E. Stock, Mrs. L. E. Jordan, Fred M. Watts.

Trades. Charles F. Warner, Principal.
Burton A. Adams, Clifford S. Bragdon, John W. Burley, Edwin A. Finch, Clarence M. Hall, Edward E. Holton, Frank E. Mathewson, Frank W. Tower, Charles H. Wilcox, Charles H. Wilson, Charles A. L. Wright.

MATRONS IN CHARGE OF BATHS.

Armory Street School,	Mrs. Alice R. Woods, 754 Liberty street.
Chestnut Street School,	Mrs. Gertrude E. Viggers, 49 Benton street.
Hooker Street,	Mrs. Clara E. Campbell, 125 Greenwood st.
William Street School,	Mrs. Edith E. Van De Carr, 56 Main street.
Worthington St. School,	Mrs. Delia E. Flanagan, 7 Armory street ct.

JANITORS OF SCHOOL BUILDINGS.

Alden Street.—George A. Slater, 43 Alden street.
Armory Street.—Thomas M. Collins, 110 Congress street.
Barrows.—C. E. Frost, 586 Worthington street.
Belmont Avenue.—Alfred J. Turner, 28 Forest street.
Boston Road.—William M. Leitch, Bay street, corner Boston road.
Brightwood.—Walter F. McCray, 507 Plainfield Street.
Buckingham.—E. W. Lathrop, 930 State street.
Carew Street.—C. H. Emerson, 99 Jefferson avenue.
Central Street.—Robert Case, 15 Pine street court.
Charles Street.—J. R. Elwell, 287 Chestnut street.
Chestnut Street.—D. E. Robinson, 72 Hall street.
Edward M. Meagher, 26 Talcott avenue.
Eastern Avenue.—L. H. Cross, 75½ Tyler street.
East Union Street.—Patrick H. Reavey, 7 Genesee street.
Five Mile Pond.—Mrs. R. D. Butler, Indian Orchard.
Forest Park.—Christopher Clark, 303 Belmont avenue.
Glenwood.—Louis Belanger, 39 Farnsworth street.
High (Central).—August C. J. Swanson, 210 Hancock street.
Albert H. Buck, Engineer, Marion street.
Carl J. Adolphson, 68 Pendleton avenue.
High (Technical). —Clifton L. Holcomb, 126 King street.
Monroe E. Pease, 11 Rutland avenue.
Burton T. Sornborger, Engineer, 58 King street.
Homer Street.—O. J. Tarbox, 14 Wilbraham avenue.
Hooker.—Byron R. Barnes, 4 Sheridan lane.
Howard Street.—Matthew J. Clark, 42 Acushnet avenue.
Indian Orchard Grammar.—Charles W. Meeker, 50 Hampden street,
Indian Orchard.
Indian Orchard Primary.—John Robinson, Center street, I. O.
Jefferson Avenue.—Edmund F. Tillson, 149 North street.
School Street.—Henry D. Pease, 81 Oak street.
Sixteen Acres.—J. E. Smith, Sixteen Acres.
South Main Street.—Cyrus N. Carpenter, 89 Belmont avenue.
State Street.—William P. Garvey, 690 Worthington street.
Strickland.—Thomas J. Healey, 150 Bridge street.
Tapley.—John J. Twohig, 9 Harvard street.
Wachogue.—Walter James, Allen street.
White Street.—William D. Kelleher, 67 Greenwood street.
William Street.—Marvin W. Fisk, 30 Bancroft street.
Worthington Street.—Charles R. Colton, 124 Byers street.
Administration Building.—E. H. Newell, 59 Morgan street.
Substitute Janitor.—William G. Adams, 75 Pynchon street.

THE CENTRAL HIGH SCHOOL.

A high school for the center district or village of the town was organized in 1841 on Elm street, on the site of the present court house. Rev. Sanford Lawton was its first principal, and was succeeded in 1844 by Ariel Parish. A new building was erected for the school, and was dedicated September 9, 1848. This building was removed in 1892, the site now being occupied by the Police Department building.

In 1849, an act was passed by the Legislature requiring all towns containing 500 families or more, to support a high school for the benefit of the whole town. An arrangement was soon after made by which a town high school was opened in the above-named building, May 5, 1849.

The high school building in which the school had been housed until September, 1898, was first occupied August 31, 1874. This building had been inadequate to meet the needs of the school for a good many years.

The new building was first occupied in September, 1898. Its dimensions are 203 feet by 173 feet and it accommodates 800 pupils.

The school year of 1899-1900 marked the fiftieth anniversary of the high school as it at present exists, and the twenty-fifth anniversary of the entrance into the building standing next the one now occupied. During these fifty years the total enrollment of the school was about 15,000, the number of different pupils enrolled about 6,000, and the number of graduates, 1,566.

An alumni association was organized in 1854. This had an intermittent existence up to six years ago and renewed and enlarged its organization at a large gathering in the present school building on October 20, 1899, the day of the fiftieth anniversary.

The following are the present officers of the High School Alumni Association: Executive committee: President, Ralph W. Ellis; first vice-president, Nathan D. Bill; second vice-president, William H. Pomeroy; secretary, Robert S. Folsom; treasurer, John T. Hawkins; Mrs. Louise Fitts Warren, William Orr, Mrs. Florence Pomeroy Pirnie, Miss Mabel Stock, William G. McKechnie, George C. Gardner.

The Alumni Association has triennial reunions and aims to promote the higher interests of the present high school and to give expression through social gatherings to the spirit of loyalty which has always characterized the school. At present the former members of the school are engaged in raising a fund for a memorial gift to the school in honor of the former principals and teachers. This gift will undoubtedly take the form of a mural painting. Methods for raising the fund are now under consideration.

TERMS OF ADMISSION

Pupils are admitted to the high school once a year. All pupils of the grammar schools who are recommended by the principals of these schools are admitted without examination. All those not so recommended are granted the privilege of an examination for admission if they desire it.

Non-residents are admitted upon passing the required examination and paying a tuition of $75 per year in advance. A special pamphlet containing the courses of study and all other necessary information in regard to the school is issued separately, and may be obtained by applying to the Superintendent of Schools, or to Principal William Orr of the Central High School.

TABLE II.

NUMBER OF PUPILS IN EACH GRADE.

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	Freshmen.	Sophomore.	Junior.	Senior.	Post Grad.
January, 1891,	1234	766	681	577	511	408	295	260	221					
January, 1892,	1307	893	841	541	522	468	327	245	222					
January, 1893,	1311	1013	918	648	483	477	350	236	230					
January, 1894,	1434	990	996	659	584	505	342	238	248					
September, 1894,	1618	936	1030	795	640	530	350	266	250	174	154	69	63	
September, 1895,	1539	1053	1035	794	724	513	445	277	263	177	126	96	65	
September, 1896,	1723	1020	1180	817	785	621	460	283	258	204	118	86	104	
September, 1897,	1731	1134	1211	980	789	754	474	381	274	206	159	93	88	15
September, 1898,	1775	1145	1287	965	875	657	635	382	299	227	159	123	80	22
September, 1899,	1789	1174	1243	1029	952	786	559	486	380	243	174	130	114	13
September, 1900,	1717	1068	1294	1107	904	884	621	463	380	293	206	142	83	28
September, 1901,	1717	1265	1226	1152	1024	892	759	548	378	298	212	168	104	26
September, 1902,	1685	1297	1276	1088	1135	903	768	653	416	316	214	179	124	27
September, 1903,	1773	1319	1180	1341	1072	986	799	633	464	390	260	172	132	18
September, 1904,	1610	1314	1265	1260	1025	964	912	639	478	433	335	207	121	26
September, 1905,	1663	1293	1271	1266	1140	977	881	661	560	350	248	229	132	16
September, 1906,	1484	1375	1267	1249	1151	1025	941	712	514	509	338	230	185	16

THE TECHNICAL HIGH SCHOOL.

ELLIOTT STREET

THE MANUAL TRAINING SCHOOL.

Manual training was introduced into the Springfield schools experimentally in 1886, when an appropriation of $1,000 was made therefor, one half of which was expended for a joinery equipment of twelve benches and sets of tools, and the remainder for salary of an instructor three days per week. Mr. George B. Kilbon was appointed instructor, who later held the position of principal of the manual training school until July, 1898. Fifty-four ninth grade boys and thirty high school boys were admitted to receive lessons of one and one half hours' duration, once each week. The appropriation lasted till March 30, 1887, when the school was discontinued, but it reopened May 25 with arrangements for lessons once a week, to be given ninth grade grammar boys, and daily lessons to be given high school boys. In 1891, eighth grade boys were admitted to receive lessons once a fortnight. In November, 1895, arrangements were completed whereby eighth grade boys received one lesson per week after school hours. Teachers' classes were organized every year, previous to 1893, to receive instruction weekly in knife work preparatory to teaching it in the lower grades; a small class of high school girls yearly, previous to 1893, also received instruction in elementary wood work. From 1893 to 1897 inclusive, a class of young ladies from the Normal Training School took weekly lessons in knife work.

Commencing with September, 1896, the high school manual training course, which had hitherto covered three years, was rearranged to cover four years; and instead of the manual work of the course being taught in the afternoon, as formerly, it was taught in the forenoon. High school pupils electing the manual training course went to the manual training school, which was located near by, for the shop work required in connection with the academic branches in this course.

CHANGES IN ORGANIZATION AND NAME

In August, 1898, the manual training school was reorganized and established as an independent high school, designated as the Mechanic Arts High School. To carry this change of organization into effect it was necessary to provide a building in which academic as well as manual instruction could be given. The old shop on Worthington street, in which the manual training school had been located since its removal from State street, was suited only for shop work. At this juncture it was brought to the attention of the Committee that the Springfield Industrial Institute at Winchester Park had been discontinued, so that its building, designed for giving academic as well as mechanical instruction, was available. This building was accordingly leased for a term of years and the new high school organized in September, 1898, with fifteen boys in attendance. Here the school was carried on for eight years, during which time its enrollment increased to 190. The purpose of the school was not understood at first, partly because it became associated in the minds of many people with its predecessor in the same building—the Industrial Institute,—which had been a private school for teaching trades, both day and evening; partly because, in October, 1898, soon after the opening of the Mechanic Arts High School, a new public evening trade school was organized in the same building, making use of the same equipment and employing the same teachers as the high school; and partly because the word "Mechanic" in the name of the school was misinterpreted by many to imply the teaching of trades. The Mechanic Arts High School was not organized as a trade school, but as a high school in which, besides the academic branches of a full high school course, the fundamental principles of drawing, of design, and of hand and machine tool work should be taught in a practical way. In order that there might be no further misunderstanding of the purposes of the school, its name was changed in May, 1904, to the Technical High School.

THE NEW BUILDING

The Technical High School has grown rapidly from the first. In order to furnish adequate accommodations and give the school a more central location, as well as to provide for the rapidly increasing high school enrollment in general, to all of which needs the attention of the City Government had repeatedly been called in former reports of the School Committee, active steps were taken in the fall of 1903 to provide a new high school building. The City Council passed a vote directing the Mayor to appoint a commission of five, he himself to be a member, whose duties should be to investigate the problem and recommend a feasible plan to the Council. This commission was appointed on October 20th of the same year, and consisted of Mayor Everett E. Stone, W. W. McClench, Ralph W. Ellis, James J. Sullivan, and Frank D. Kemp. After careful study of the problem this commission rendered its report in June, 1904, recommending the purchase of a suitable lot on Elliott street and the erection of a plain, substantial building to accommodate between four and five hundred boys. The City Property Committee took up the task, purchasing the lot recommended for $55,000 and employing as architects E. C. & G. C. Gardner of this city. It was finally decided, in the interests of ultimate economy, to build as large a building as the lot would hold. The City Government appropriated $225,000 for erecting and equipping such a building. Plans were accordingly made for a building to accommodate about 800 pupils. D. W. Mellen, a citizen of Springfield, secured the contract, and the building was practically completed before the end of the year 1906. In this building the school was organized in September of that year with a total enrollment of 369 boys and 260 girls, nearly half of which enrollment consisted of the high school commercial department, which was transferred to the Technical High School in order to relieve the overcrowded condition at the Central High School. With the organization of the school in the new building, and in accordance with the action of the School Board under date of February 10, 1906, the curriculum was extended to include instruction in domestic science and household arts together with the ordinary high school studies. Thirty-four girls were admitted to these courses in September, 1906.

This building is probably the largest and best equipped high school building of this type in New England. It is 238 ft. 8 in. long by 216 ft. 8 in. deep, and is designed to accommodate about 800 pupils. There are eighteen class rooms in the main building, varying in accommodations from eighty to twenty-four pupils. Besides the regular class rooms in the main building there are seven laboratories, a lecture hall seating 75, and a small demonstration room on the top floor for physics and chemistry. Four large rooms on this floor are also available for work in domestic science and other forms of technical work for girls. In the basement there is a gymnasium 76 ft. 6 in. long by 57 ft. 7 in. wide, including corridors, with two large rooms for lockers and baths and four other rooms for athletic purposes. A well appointed lunch room and other necessary rooms are also in the basement. The running track of the gymnasium opens into the main corridor on the first floor directly opposite the front entrance to the building. Above this, on the second floor, is the assembly hall, which has a gallery entered from the third floor. The seating capacity of this hall is 700.

The mechanical wing, in the rear of the main building, is of peculiar design and construction and well suited to its special uses. In the basement of this wing is the forge shop, 67 ft. square, covered by a monitor roof of special design which admits light and provides for ventilation. On one side of the forge shop are the boiler and engine rooms and on the other the foundry and wood turning shops. The basement also contains two rooms for the plumbing classes and the necessary locker rooms. On the first floor of the mechanical wing are three rooms designed for machine shop work and three for joinery and pattern making. All of these rooms are well lighted by large and numerous windows, and some of them receive light through the low roof which covers the main part of the mechanical wing. The rear of this wing is carried up two stories higher than the main part; and in the first of these additional stories are three large rooms, one for electrical work, another for wood finishing, and another for freehand drawing. The top floor of this elevated portion is entirely given over to the department of mechanical drawing, and is divided into two large drawing rooms, a lecture room, and several accessory rooms.

The building has cost, exclusive of the lot but including an additional appropriation for fireproofing and for the new equipment, $277,000. Ordinary red brick is the principal material used in its construction, but the main building is finished with a special grade of red brick with Indiana limestone trimmings. The central portion around the main entrance is built entirely of Indiana limestone. The entire building is of fireproof construction of the modern reinforced concrete type. This form of construction not only furnishes complete protection against fire, but insures durability, freedom from sound transmission and from dust and other unsanitary conditions. The heating and ventilating system depends upon the forced circulation of hot water with direct radiation and an abundant supply of fresh air at a moderate temperature, under the control of pressure and exhaust fans. A 125 H.P. engine with a direct connected electrical generator furnishes the power for the heating and ventilating systems, for the machine work of the mechanical departments, and for a considerable portion of the artificial lighting.

GENERAL CHARACTER OF THE CURRICULUM

The Technical High School is an independent public high school free to all properly qualified boys and girls who hold a legal residence in Springfield. It bears to the older high school a relation similar to that which schools of technology of college grade bear to colleges of the liberal arts. It offers strong courses in English language and literature, French, German, Latin, history, mathematics, science, freehand and mechanical drawing and design. Pupils may prepare for college in this school. As its distinctive feature it requires of every boy in the technical division of the school four years of varied practice in the use of hand and machine tools, for the purpose of giving him the educational advantages of manual and technical training. No attempt is made to teach the trades. In the same spirit, courses in domestic science and household arts are offered to girls. The educational aim is broad and practical, not narrowly vocational. A good general education is also given in the commercial department in addition to special training in commercial branches.

REQUIREMENTS FOR ADMISSION

Any boy or girl who has been graduated from the ninth grade of the Springfield grammar schools is entitled to admission to the Technical High School without examination. All other candidates must pass an examination. The standard of admission and the examination are the same for this as for the Central High School. Tuition is free to all residents of Springfield. Non-resident students are charged a tuition fee of $75 for the year, payable in advance as follows: $30 for the first term, and $15 for each of the remaining three terms.

A reprint of the course of study and other information in regard to the school may be obtained at the office of the Superintendent of Schools or by applying to Principal Charles F. Warner.

THE EVENING SCHOOL OF TRADES.

ORGANIZATION AND DEVELOPMENT

In the autumn of 1898 steps were taken to provide at public expense instruction in trades. Evening classes were organized to meet in the building of the Mechanic Arts High School, the valuable equipment of which could thus be put to a double use. There were two classes formed in tool-making and one in plumbing. Each class met three evenings a week, from 7.15 to 9.15, for five months. These classes proved to be very successful. Not only was the instruction universally acknowledged to be of great value to the men who received it, but it was also admitted to be of general profit to the trades represented. The Master Plumbers' Association voluntarily agreed, in employing help, to give preference to the members of the evening classes in plumbing. Leading representatives of the iron-working and wood-working trades expressed approval, and advised their employees to join these classes. It was evident from the first that the expense of maintaining this important addition to the public school system of Springfield would not be a serious matter, and the several city governments have, almost invariably, promptly voted the moderate sum required. No inconsiderable return has come to the city in the tools and other apparatus made by the machine shop classes.

The growth of this school has been exceedingly encouraging. The classes in machine shop practice and tool-making have shown the greatest increase in enrollment, exhausting the capacity of the shop and creating a waiting list of applicants. The value of this work is evidently appreciated by those who have availed themselves of the opportunities offered in these classes. The enrollment in the wood-working and pattern-making class has also increased. A class in mathematics for mechanics was organized at the opening of the school in October, 1901, and it proved to be a valuable addition to the school. The enlargement of this work during the years following is evidence of a growing appreciation among mechanics of the value of such instruction. There are now three classes, namely, an elementary, a middle, and an advanced class, which together cover a wide range of mathematical subjects. A lecture course in electricity and magnetism was also started in 1901. The following year this work was extended by the addition of two laboratory classes in applied electricity, each class coming twice a week. These classes have met the popular interest in electrical subjects, and the work already accomplished justifies their continuance. It will be seen that the work of this school now includes thorough instruction in mechanical drawing, machine shop practice and tool-making, plumbing, joinery and wood-turning, pattern-making, shop mathematics and electricity. The enrollment in these classes amounts to about three hundred and fifty, and is remarkably constant, showing a much higher percentage of attendance than is common in evening schools.

GENERAL OBJECT

The object of the Evening School of Trades is mainly to give men already employed in the trades, who know, therefore, at least a part of the trade in which they are employed, an opportunity to broaden their mechanical training and make themselves more efficient workmen. It is not the function of this school to train apprentices as such, but to supplement the imperfect and highly specialized training of modern shops by giving machine hands, helpers, and apprentices, so far as there are any apprentices, an opportunity to gain practice in a greater variety of work than would ever be open to any one man under the modern system of machine production. The aim of the school is to enable a mechanic to acquire a wider range of practical knowledge and to improve the quality of his work, and thus reach a higher classification in his trade with increased wages. This is a great advantage to the individual workman; but it does not materially affect the condition of the labor market in general.

TERMS OF ADMISSION

Tuition in all the classes is free to all persons over fourteen years of age who are residents of Springfield, but a fee of $5 for materials and other incidental expenses is charged each member of the classes in machine shop practice, and in pattern-making; in plumbing this incidental fee is $8, and in the laboratory work in electricity it is $2.50. Non-residents are charged a tuition fee for the season of twenty-four weeks as follows: For mechanical drawing, for mathematics, and for electricity, $10; for all other classes, $15. Non-residents are also charged the incidental fees. Members are required to be regular in attendance. Persons wishing to join classes must give satisfactory references as to character and show evidence of ability to do the work required. Certificates of proficiency are awarded in each course to those who complete that course satisfactorily. The school opens the second week in October and is in operation 24 weeks, closing Thursday and Friday evenings of Thanksgiving week and during the vacation of the Christmas holiday season. The school hours are from 7.15 P. M. to 9.45 P. M.

For information in regard to any of the courses of the Evening School of Trades, apply to Mr. Charles F. Warner, Principal, Technical High School.

DECORATION OF SCHOOLROOMS.

The works of art that beautify many of the schoolrooms in the city have a refining influence upon the children who see them from day to day. The deep interest taken in securing fine works of art for decorating the schoolrooms is shown by the large sums that have been collected for this purpose in many of the schools. Without doubt money thus spent will yield a large return in the form of a better appreciation of that which enriches the emotional nature.

The table given herewith indicates the fund raised up to the present time by each school that has engaged in this work:—

Central High,	$4,128 07
Technical High,	159 00
Alden Street,	55 67
Armory Street,	173 80
Barrows,	750 80
Belmont Avenue,	30 00
Boston Road,	13 80
Brightwood,	92 00
Buckingham,	816 00
Carew Street,	53 13
Central Street,	940 21

Charles Street,	12 00
Chestnut Street,	1,060 00
Eastern Avenue,	29 36
East Union Street,	64 85
Forest Park,	445 46
Homer Street,	30 00
Hooker,	895 60
Howard Street,	947 20
Indian Orchard Grammar,	180 00
Indian Orchard Primary,	65 00
Jefferson Avenue,	744 20
School Street,	143 28
South Main Street,	240 60
State Street,	108 00
Strickland,	151 66
Tapley,	392 18
White Street,	50 00
William Street,	473 83
Worthington Street,	700 16
	$13,945 86

SCHOOL SAVINGS BANKS

The two statistical tables given below have been furnished by the Secretary of the Union Relief Association. The items that appear in the first table are taken from the annual report of the Association. The savings made by the children of the various schools, as shown in this tabulated statement, are deposited in the savings banks of Springfield.

The items that appear in the second table include the total sales of stamps and the total amount deposited in savings banks for the past ten years. This summary shows the extent of this excellent work and also the great increase in total sales and amount deposited in savings banks during the present school year.

Statistics for Year from December 1, 1905, to December 1, 1906:—

	Amount of Stamps Sold at Schools.	Amount Deposited in Savings Bank.
Alden Street,	$79 15	$71 93
Armory Street,	318 00	195 08
Barrows,	132 75	59 24
Belmont Avenue,	170 00	73 88
Brightwood,	118 00	23 03
Carew Street,	346 99	214 33
Central Street,	253 45	146 18
Charles Street,	160 00	59 12
Chestnut Street,	1,444 00	458 24
Eastern Avenue,	135 00	55 43
East Union Street,	25 00	14 50
Elm Street,	152 50	98 87
Forest Park (one room),	73 50	63 31
Homer Street,	25 00	17 17
Hooker,	1,315 00	1,098 39
Howard Street,	335 45	29 34
Indian Orchard Grammar,	480 00	340 36
Indian Orchard Primary,	104 00	98 13
Jefferson Avenue,	446 00	300 56
South Main Street,	384 75	81 42
Strickland,	294 25	78 69
White Street,	163 07	21 55
William Street,	346 00	115 55
Worthington Street,	399 00	276 56
	$7,700 86	$3,990 86

Year.	Total Sales for Ten Years.	Total Bank Deposits for Ten Years.	Year.	Total Sales for Ten Years.	Total Bank Deposits for Ten Years.
1897	$4,451.43	$3,111.25	1902	$6,024.34	$3,414.73
1898	3,547.47	2,320.62	1903	5,238.94	3,155.38
1899	4,790.41	2,973.65	1904	4,802.99	2,573.41
1900	4,736.63	2,661.01	1905	5,012.27	2,980.66
1901	4,513.84	2,719.25	1906	7,700.86	3,990.86
				$50,819.18	$29,900.82

EVENING FREE-HAND DRAWING SCHOOL.

CENTRAL HIGH SCHOOL BUILDING.

Persons to be admitted free of charge must be residents of the city, not less than fifteen years of age, and not members of a public day school, except in cases where special permission is granted by the Superintendent of Schools. Non-residents are charged $10 for the session. One lesson a week is required.

OUTLINE OF WORK.

ELEMENTARY CLASS.

Still life, simple casts, etc., in charcoal, pencil, and color.

INTERMEDIATE CLASS.

Still life, historic ornament, and casts from details of human figure in charcoal.

ADVANCED CLASSES.

Life Class—Drawing from life in charcoal, pencil, pen and ink, and color.

Pictorial composition.

Design Class—The principles of design and their application in applied and constructive design.

All work is subject to the approval of the Supervisor of Drawing.

LIST OF TEXT-BOOKS.

AUTHORIZED FOR USE IN THE PUBLIC SCHOOLS.

PRIMARY AND GRAMMAR SCHOOLS.

Ordinary type without numbers indicates books of which a copy is to be furnished to each pupil; ordinary type with numbers in parenthesis indicates books of which the numbers specified will be furnished to a building; books in italics will be furnished in sets not exceeding 25 to each room in which they are used. Schools needing less than these quantities should make requisitions for less. These statements do not apply to high school books.

READING.

AUTHOR.	TITLE.	GRADE.
Blaisdell, Etta A.	*Child Life Reader, 1st to 3d*	I-III.
Cyr, Ellen M.	*Primer*	I.
Holbrook, Florence	*Hiawatha Primer*	II.
Jones, L. H.	Jones' Third Reader (40)	III.
Noyes & Guild	Sunshine Primer	I.
Osgood, Eulalie Grover	Folklore Primer	I.
Osgood, Eulalie Grover	*Sunbonnet Babies Primer*	I.
Shaw, Edward R.	Big People and Little People of Other Lands	III.
Thompson, J. G. & T. E.	*For Childhood Days*	I.
Wiltse, Sara E.	*Folklore Stories and Proverbs*	II.
GEOGRAPHICAL.		
Andrews, Jane	Seven Little Sisters	IV.
Carpenter, Frank G.	Geographical Reader, Asia	V.
Carpenter, Frank G.	Geographical Reader, North America	VI.
Carpenter, Frank G.	Geographical Reader, Europe	VII.
Carroll, Stella W.	*Around the World, Bk. 1*	II.
Carroll, Stella W.	Around the World, Bk. 2	IV.
Chaplin, F. P. & Humphrey, F. A.	*Little Folks of Other Lands*	II.
Kirby, Mary & Elizabeth	Aunt Martha's Corner Cupboard (50)	IV.
Schwatka, Frederick	Children of the Cold (50)	V.

HISTORICAL.

AUTHOR.	TITLE.	GRADE.
Burton, Alma H.	Indians of New England (50)	VI.
Eggleston, Edward	Stories of Great Americans (50)	IV.
Guerber, H. A.	Story of the Greeks	VIII.
Guerber, H. A.	Story of the Romans	IX.
Hawthorne, N.	Grandfather's Chair (50)	VII.
Plutarch	Lives (Ginn) (100)	VIII, IX.
Pratt, Mara L.	Legends of the Red Children (50)	VI.
Pratt, Mara L.	Stories of Colonial Children (50)	IV.
Smythe, E. Louise	*Old Time Stories*	II.
Starr, Frederick	American Indian (50-100)	VI.
Tanner, Dorothy	Legends from the Red Man's Forest (50)	V.

ELEMENTARY SCIENCE.

Cooke, Flora J.	Nature Myths (50)	III.
Long, William J.	Ways of Wood Folk (50)	V.

GENERAL LITERATURE.

Æsop	Fables (Stickney)	IV.
Andersen, Hans	Fairy Tales, I & II (50)	V.
Baldwin, James	Fairy Stories and Fables (50)	III.
Baldwin, James	Old Greek Stories (50)	IV.
Beckwith, M. Helen	*In Mythland, Vol. I.*	II.
Bellamy, Charles J.	Return of the Fairies (50)	IV.
Carroll, Lewis	Alice's Adventures in Wonderland (50)	V.
Cook, Agnes S.	Story of Ulysses (50)	V.
Cooper, J. Fenimore	The Spy (50)	VII.
Defoe, Daniel	Robinson Crusoe (Lambert) (50)	VI.
Dickens, Charles	Christmas Carol, etc. (50-100)	VIII.
Dickens, Charles	Little Nell (50-100)	VII.
Dickens, Charles	Tale of Two Cities	IX.
Francillon, R. E.	Gods and Heroes	VIII.
Hawthorne, N.	Tanglewood Tales (50)	VII.
Hawthorne, N.	Wonder Book (50)	VI.
Homer	Odyssey (Bryant) (50-100)	IX.
Kingsley, Charles	Water Babies (50)	V.
Longfellow, H. W.	Hiawatha (50)	VI.
Longfellow, H. W.	Selections (50-100)	VIII.
Martineau, Harriet	Peasant and Prince	IX.
Norton, C. Eliot	Heart of Oak, I (25)	I.
Scott, Walter	Ivanhoe	IX.
Scott, Walter	Kenilworth (50-100)	IX.
Scott, Walter	Lady of the Lake (Rolfe) (50-100)	IX.
Scott, Walter	Marmion (Rolfe) (50-100)	IX.
Scott, Walter	The Talisman (Holbrook) (50-100)	IX.

GENERAL LITERATURE (Continued).

AUTHOR.	TITLE.	GRADE.
Shakespeare, W.	Julius Cæsar (Hudson) (50)	IX.
Stockton, Frank R.	Fanciful Tales (50)	V.
Wyss, J. D. & J. R.	Swiss Family Robinson (Stickney) (50)	VI.

LANGUAGE.

Chancellor	Graded City Speller, Fifth Year	V.
Chancellor	Graded City Speller, Sixth Year	VI.
Chancellor	Graded City Speller, Book II	VII-IX.
Southworth, G. A.	Elements of Composition and Grammar	VIII, IX.

ARITHMETIC.

Emery, M. S.	Everyday Business (50)	VIII.
Nichols, W. F.	Graded Lessons in Arithmetic, II-VII	II-VII.
Smith, D. E.	Primary	III, IV.
Smith, D. E.	Intermediate	V, VI.
Smith, D. E.	Advanced	VII, VIII.
Southworth-Stone	Book I	III, IV.
Southworth-Stone	Book II	V, VI.
Southworth-Stone	Book III	VII, VIII.
Spencer, W. G.	Inventional Geometry	IX.

GEOGRAPHY.

Frye, Alexis E.	Grammar School Geography	VIII.
Maury, M. F.	Physical Geography	IX.
Morton, Eliza H.	Advanced Geography	VI, VII.
Morton, Eliza H.	Elementary Geography	V.

HISTORY.

Dodge, N. S.	Stories of American History	IV.
Eggleston, Edward	First Book in American History	V.
Fiske, John	War of Independence	IX.
Gibson, J. W.	Chart History of the Civil War (50-100)	VIII.
Gordy, Wilbur F.	Complete History of the United States	VII, VIII.
Montgomery, D. H.	Leading Facts of French History (50-100)	IX.
Scudder, Horace E.	George Washington (50-100)	VII.
Scudder, Horace E.	Short History of the United States	VI.
Tappan, Eva March	England's Story	IX.

PHYSIOLOGY.

AUTHOR.	TITLE.	GRADE.
Blaisdell, Albert F.	Child's Book of Health	IV.
Blaisdell, Albert F.	How to Keep Well	VII.
Steele, J. D.	Hygienic Physiology	VIII, IX.
Steele, J. D.	Child's Health Primer	V.
Steele, J. D.	Hygiene for Young People	VI.

BOOKKEEPING.

Meservey, A. B.	Bookkeeping	VIII.

MUSIC.

Tufts, John W.	Cecilian Series of Study and Song,	VIII, IX.
Tufts, J. W. & Holt, H. E.	Normal First Music Reader,	II, III.
Tufts, J. W. & Holt, H. E.	Normal Second Music Reader, Part I	IV, V.
Tufts, J. W. & Holt, H. E.	Normal Second Music Reader, Part II	VI.
Tufts, J. W. & Holt, H. E.	Normal Introductory Third Music Reader	VII.

PENMANSHIP.

Hill, Anna E.	System of Medial Slant Penmanship	I-IX.

DICTIONARY.

Webster, Noah	Primary Dictionary	IV, V.
Webster, Noah	Common School Dictionary	VI-IX.

MANUAL TRAINING.

Murray, M. W.	Problems in Wood Working

CENTRAL HIGH SCHOOL.

CLASSICS.

Text-Books:

AUTHOR	TITLE.
Allen & Greenough	Latin Grammar
Arrowsmith & Knapp	Viri Romæ
Autenreith	Homeric Dictionary
Collar	Practical Latin Composition
Collar & Daniell	First Year Latin
Daniell	Exercises in Latin Composition
D'Ooge	Latin Composition
Gleason	Xenophon's Cyropædia
Gleason	Greek Prose Composition
Greenough & Daniell	Sallust's Catiline
Greenough & Kittredge	Vergil
Hadley & Allen	Greek Grammar
Keep	Homer's Iliad (Books I-VI)
Kelsey	Cæsar
Kelsey	Cicero
Kelsey	Ovid
Kelsey	Xenophon's Anabasis
Liddell & Scott	Abridged Greek Dictionary
Merry	Homer's Odyssey (Books I-XII)
Palgrave	Golden Treasury
Perrin	Homer's Odyssey (Books I-IV)
Rolfe	Xenophon's Anabasis (Book V)
Shuckburgh	Cicero De Senectute (Cato Major)
White	First Greek Book
Woodruff	Greek Prose Composition

Supplementary Books:

Allen & Greenough	Cicero
Butler	Herodotus (Book VII)
Collar	Gate to Cæsar
Conington	Vergil
Greenough	Vergil's Æneid (Books VII-XII)
Jeram	Angelice Reddenda
	Homeric World
Lindsay	Cornelius Nepos
Moss	First Greek Reader
Page	Bucolics of Vergil

ENGLISH.

Text-Books:

Carpenter	Exercises in Rhetoric
Genung	Outlines of Rhetoric

AUTHOR	TITLE.
Hill	Foundations of Rhetoric
Mooney	Foundation Studies in Literature
Pancoast	Introduction to American Literature
Pancoast	Introduction to English Literature
Scott & Denney	Elementary English Composition
Webster	English Composition and Literature

Supplementary Books:

Addison	De Coverley Papers
Arnold	Sohrab and Rustum
Bigelow	Handbook of Punctuation
Bradley	Orations and Arguments
Browning	Lady Geraldine, Selected Poems
Bryant	Selections
Buehler	A Modern English Grammar
Buehler	Practical Exercises in English
Burke	Speech on Conciliation with America
Carlyle	Essay on Burns
Carlyle	Heroes and Hero Worship
Chaucer	Prologue to Canterbury Tales
Cooper	The Last of the Mohicans
De Quincey	English Mail Coach
Dickens	A Tale of Two Cities
Eliot	Silas Marner
Emerson	Culture, Books, Power, etc. (Essays)
Emerson	Fortunes of the Republic
Francklin	Antigone of Sophocles
Franklin	Autobiography
Genung	Practical Rhetoric
Genung	Rhetorical Analysis
George	From Chaucer to Arnold
Goldsmith	Vicar of Wakefield
Goldsmith	She Stoops to Conquer
Green	Short History of the English People
Hale	Longer English Poems
Hawthorne	Twice Told Tales
Hawthorne	Tales of the White Hills
Hawthorne & Lemmon	American Literature
Holmes	Selections from Breakfast Table Series
Irving	Life of Oliver Goldsmith
Irving	Selections from Sketch Book
Irving	Tales of a Traveler
Lamb	Essays from Elia
Lockwood	Lessons in English
Lockwood & Emerson	Composition and Rhetoric
Longfellow	Hiawatha
Lowell	Sir Launfal

AUTHOR	TITLE.
Macaulay	Earl of Chatham
Macaulay	On Life of Samuel Johnson
Macaulay	Milton and Addison
Macaulay	Essays on Addison and Johnson
	Masterpieces of British Literature
Matthews	Introduction to American Literature
Milton	Paradise Lost (Books I, II)
Milton	Lyrics
O'Neill	Punctuation
Palgrave	Golden Treasury
Palmer	Translation of the Odyssey of Homer
Parkman	Champlain and His Associates
Pattee	A History of American Literature
Poe	Poems and Tales
Pope	The Iliad
Potter	Alcestes of Euripides
Ruskin	Sesame and Lilies
Scott	Ivanhoe
Scott	Marmion
Scott	Lady of the Lake
Scott	Woodstock
Shakespeare	A Midsummer Night's Dream (Rolfe)
Shakespeare	As You Like It (Rolfe)
Shakespeare	Hamlet (Rolfe)
Shakespeare	Julius Cæsar (Rolfe)
Shakespeare	King John (Rolfe)
Shakespeare	King Henry IV (Part I) (Rolfe)
Shakespeare	King Henry IV (Part II) (Rolfe)
Shakespeare	King Henry V (Rolfe)
Shakespeare	King Lear (Rolfe)
Shakespeare	King Richard II (Rolfe)
Shakespeare	King Richard III (Rolfe)
Shakespeare	Macbeth (Rolfe)
Shakespeare	Merchant of Venice (Rolfe)
Shakespeare	Othello (Rolfe)
Shakespeare	Tempest (Rolfe)
Shakespeare	Twelfth Night (Rolfe)
Shaw	History of English Literature
Shelley & Keats	Selections
Simonds	Student's History of English Literature
Stevenson	Treasure Island
Taylor	Lars
Tappan	Topical Notes on American Authors
Tennyson	Idylls of the King
Tennyson	The Princess
Thackeray	The Newcomes
Webster	Academic Dictionary
Webster	First Bunker Hill Oration

AUTHOR	TITLE.
Whitney & Lockwood	English Grammar
Whittier	Snowbound, Among the Hills, Songs of Labor

FRENCH.

Text-Books:

AUTHOR	TITLE.
Balzac	Le Curé de Tours
Bowen	Modern French Lyrics
Cameron	French Prose Composition
Chardenal	Complete French Course
Constanseau	French Dictionary
Corneille	Le Cid
Daudet	La Belle Nivernaise
François	Advanced French Composition
François	Beginner's French
Fraser & Squair	French Grammar
Grandgent	Selections for French Composition
Grandgent	Materials for French Composition (Pt. I)
Grandgent	Materials for French Composition (Part IV)
Grandgent	Materials for French Composition (Pt. V)
Guerber	Contes et Legendes (Part I)
Halévy	L'Abbé Constantin
Heath	French-English and English-French Dictionary
Hennequin	Lessons in Idiomatic French
Kimball	French Composition based on "Colomba"
La Fontaine	Fables
Lamartine	Jeanne D'Arc
Larousse	Grammaire Complète
Larousse	Dictionnaire
Loti	Pécheur d'Islande
Merimée	Colomba
Molière	L'Avare
Racine	Esther
Sandeau	Mlle. de la Seiglière
Super	French Reader
Spiers & Surenne	French and English Dictionary
Worman	Grammaire Française

Supplementary Books:

AUTHOR	TITLE.
Bercy	Le Français Pratique
Bruce	Selections for Sight Translation
Bruno	Tour de la France
Coppée	Le Luthier de Cremone et le Trésor
Dumas	La Tulipe Noire

AUTHOR	TITLE.
Duval	Petite Histoire de la Litterature Française
Erckmann-Chatrain	Le Conscrit de 1813
Feuillet	Le Roman d'un Jeune Homme Pauvre
Fortier	Sept Grands Auteurs
Hugo	La Chute
Hugo	Quatre-Vingt-Treize
Kuhn	French Readings for Beginners
Lavisse	La Nouvelle Deuxième Année d'Histoire de France
Mairet	La Tache du Petit Pierre
Malot	Sans Famille
Mariette	Half Hours of French Translation
De Musset	Histoire d'un Merle Blanc
O'Connor	Choix de Contes Contemporains
Sand	Marianne
Sand	La Famille de Germandre
Sand	La Mare au Diable
Sévigné	Selected Letters—Syms (Editor)
Souvestre	Un Philosophe sous les Toits
Töpffre	La Bibliotheque de Mon Oncle
Verne	Tour du Monde en Quatre-Vingt Jours
	Classic French-English and English-French Dictionary
Zola	La Debacle

GERMAN.

Text-Books:

Brandt	German Reader
Collar	Eysenbach's German Lessons
Collar	Shorter Eysenbach
Freytag	Aus dem Staat Friedrichs des Grossen
Freytag	Die Journalisten
Freytag	Karl der Grosse
Goethe	Dichtung und Wahrheit
Goethe	Hermann und Dorothea
Guerber	Märchen und Erzählungen
Hatfield	Materials for German Composition based on Höher als die Kirche
Heath	German-English and English-German Dictionary
Heine	Die Harzreise
Heyse	L'Arrabbiata
Jagemann	German Prose Composition
Jagemann	German Syntax
Joynes-Meissner	German Grammar
Kayser & Monteser	A Brief German Course

AUTHOR	TITLE.
Kohlrausch	Das Jahr 1813
Lessing	Minna von Barnhelm
Mondan	German Selections for Sight Translation
Riehl	Der Fluch der Schönheit
Schiller	Thirty Years' War (Book III)
Schiller	Wilhelm Tell
Seidel	Die Monate
Spanhoofd	Deutsche Grammatik
Stifter	Das Heidedorf
Storm	Immensee
Thomas	German Grammar
Von Hillern	Höher als die Kirche
Vos	Essentials of German
Wenckebach	Die schönsten Deutschen Lieder
Wenckebach	German Composition
Whitney	German-English and English-German Dictionary

Supplementary Books:

Auerbach	Brigitta (Gore)
Baumbach	Der Schwiegersohn
Baumbach	Im Zwielicht (Vol. I)
Bernhardt	Novelletten Bibliothek (Vols. I, II)
Bernhardt	Stille Wasser
Burwirth	Words of Frequent Occurrence
Freytag	Aus dem Jahrhundert des Grossen Krieges
Frommel	Eingeschneit
Gerstacker	Germelshausen
Goethe	Prosa (Hart)
Gore	German Science Reader
Grimm	Märchen
Heyse	Das Mädchen von Treppi
Keller	Bilder aus der Deutschen Litteratur
Keller	Kleider machen Leute
Leander	Träumereien (Hanstein)
Lessing	Nathan der Weise
Müller & Wenckebach	Glück Auf
Otto	German Reader
Riehl	Burg Neideck (Palmer)
Scheffel	Ekkehardt
Schiller	Jungfrau von Orleans
Schiller	Der Neffe als Onkel
Seidel	Lebericht Hühnchen
Spyri	Rosenresli (Boll)
Stein	German Exercises

AUTHOR	TITLE.
Wildenbruch	Das edle Blut
Zschokke	Der zerbrochene Krug

HISTORY.

Text-Books:

Botsford	A History of Greece
Bryce	American Commonwealth
Channing	Student's History of the United States
Cheyney	History of England
Fiske	Civil Government in the United States
James & Sanford	Government in State and Nation
Mackenzie	The Nineteenth Century
Montgomery	Leading Facts in English History
Morey	Outlines of Roman History
Myers	Ancient History
Myers	General History
Myers	Greece
Myers	Mediæval and Modern History
Oman	A History of Greece
Walker	Political Economy
West	Modern History

Supplementary Books:

Adams	European History
Andrews	A History of England
Barnes	General History
Fisher	Outlines of Universal History
Fiske	History of the United States
Goodspeed	History of the Ancient World
Hart	Source Book of American History
Johnston	History of the United States
Larned	History of England
McLaughlin	History of the American Nation
Morey	Outlines of Roman History
Sheldon	General History

MATHEMATICS.

Supplementary Books:

Atwood	Exercises in Algebra
Bailey & Woods	Analytic Geometry
Bradbury	Elementary Geometry
Bradbury	Elementary Algebra
Bradbury-Emery	Academic Algebra
Estill	Numerical Problems in Plane Geometry

AUTHOR	TITLE.
Fisher & Schwatt	Quadratics and Beyond
Gore	Plane and Solid Geometry
Hall & Knight	Algebraical Exercises and Examination Papers
Jones	Drill Book in Algebra
Leighton	Harvard Examination Papers
McCurdy	Drill Book in Algebra
Perrin	Drill Book in Algebra
Phillips & Strong	Elements of Trigonometry
Schultze	Elementary Algebra
Schultze & Sevenoaks	Plane Geometry
Wells	College Algebra
Wells	Plane and Solid Geometry
Wells	New Plane and Spherical Trigonometry
Wells	Logarithmic Tables
Wells	Algebra for Secondary Schools
Wentworth	Arithmetic Problems
Wentworth	College Algebra
Wentworth	Geometrical Exercises
Wentworth	New Plane and Spherical Trigonometry
Wentworth	Plane and Solid Geometry
Wentworth & Hill	Exercise Manual in Algebra No. II

SCIENCE.

Text-Books:

Bergen	Foundations in Botany
Conn	Bacteria, Yeasts, and Molds in the Home
Cooley	Student's Manual of Physics
Davis	Physical Geography
Hall & Bergen	Physics
Higgins	Lessons in Physics
Jackson	An Elementary Book on Electricity and Magnetism
Newell	Descriptive Chemistry
Newell	Experimental Chemistry
Osterhout	Experiments with Plants
Peabody	Studies in Physiology
Pierce	Problems in Elementary Physics
Tarr	New Physical Geography
Todd	New Astronomy
Wentworth & Hill	Text-Book of Physics

Supplementary Books:

Appleton	Handbook of Chemistry
Appleton	School Physics

AUTHOR	TITLE.
Atkinson	Lessons in Botany
Bailey	Lessons with Plants
Byrd	A Laboratory Manual in Astronomy
Carhart & Chute	High School Physics
Coit	Chemical Arithmetic
Colton	Practical Zoölogy
Coulter	Plant Relations
Coulter	Plant Structures
Dana	Minerals and How to Study Them
Gillett & Rolfe	Astronomy
Gray	Botany
Hortvet	Elementary Practical Physics
Irish	Qualitative Analysis
Johnston	Chemistry of Common Life
LeConte	Compend of Geology
Martin	The Human Body
Orton	Comparative Zoölogy
Perkin & Lean	Introduction to Study of Chemistry
Richards	Chemistry of Cooking and Cleaning
Seller	Qualitative Chemical Analysis
Thompson	A Nature Calendar
Tracey	Anatomy, Physiology and Hygiene
Young	Lessons in Astronomy

ART.

Hamlin	History of Architecture
Van Dyke	History of Painting

MUSIC.

Tomlins	The Laurel Song Book
Morgan & Glezen	The Student's Hymnal

TECHNICAL HIGH SCHOOL.

COMMERCIAL DEPARTMENT.

American Book Co.	Modern Illustrative Bookkeeping
Adams	Commercial Geography
Bly	Business Law
Bullock	Introduction to Study of Economics
Chandler	Practical Shorthand
Clow	Introduction to Study of Commerce
Gano	Commercial Law
Gilbert & Brigham	Introduction to Physical Geography

AUTHOR	TITLE.
Mills	Modern Business Penmanship
Moore	Commercial Arithmetic
Packard	New Commercial Arithmetic
Redway	Commercial Geography
Webster	General History of Commerce
Williams & Rogers	Bookkeeping and Business Practice
Williams & Rogers	Business Law
Williams & Rogers	New Practical Grammar and Correspondence
Williams & Rogers	Business Correspondence
Williams & Rogers	Seventy Lessons in Spelling
Williams & Rogers	Test Questions in Commercial Law

Supplementary Books:

Gonner	Commercial Geography
Thurston	Economic and Industrial History
Willoughby	Rights and Duties of American Citizenship

ENGLISH.

Text-Books:

Addison	Sir Roger de Coverley Papers
Browning	Shorter Poems
Buehler	Exercises in English
Bunyan	Pilgrim's Progress
Burke	Speech on Conciliation with America
Byron	Shorter Poems
Carlyle	Essay on Burns
Coleridge	Ancient Mariner
Cooper	Last of the Mohicans
De Quincey	English Mail Coach
Eliot	Silas Marner
Emerson	Culture, Books, Power
Genung	Outlines of Rhetoric
Goldsmith	Vicar of Wakefield
Lowell	Vision of Sir Launfal
Macaulay	Lays of Ancient Rome
Macaulay	Essays on Milton and Addison
Milton	Lyrics
Milton	Paradise Lost
Pancoast	American Literature
Pancoast	English Literature
Pope	Iliad
Pope	Rape of the Lock
Scott	Ivanhoe

AUTHOR	TITLE.
Scott	Marmion
Scott & Denney	Composition-Rhetoric
Simonds	Student's History of English Literature
Tennyson	Idylls of the King
Tennyson	The Princess
Thurber	Select Essays of Macaulay
Webster	Bunker Hill Oration
Wordsworth	Shorter Poems

Supplementary Books:

Arnold	Sohrab and Rustum
Bryant	Odyssey
Bryant	Sella, etc.
Emerson	American Scholar
Gayley	Classic Myths
George	Chaucer to Arnold
Goldsmith	Deserted Village
Guerber	Myths of Greece and Rome
Hawthorne	White Hills
Holmes	Breakfast Table Series
Irving	Oliver Goldsmith
Irving	Tales from Sketch Book
Lamb	Essays from Elia
Lewis	First Book in English
Lockwood	Lessons in English
Macaulay	Life of Samuel Johnson
Pope	Essay on Man
Socrates	A translation—W. W. Goodwin
Southworth & Goddard	Composition and Grammar
Webster	Academic Dictionary
	Masterpieces of British Literature

FRENCH.

About	Le Roi des Montagnes
Bruno	Le Tour de France
Chardenal	Complete French Course
Delbos	Le Bourgeois Gentilhomme
Dumas	Le Tulipe Noire
Dumas	Monte Cristo
Enault	Le Chien du Capitaine
Feuillet	Le Roman d'un Jeune Homme Pauvre
François	Advanced French Prose
François	Introductory French Prose
Guerber	Contes et Legendes (Part I)
Heath	French Dictionary

AUTHOR	TITLE.
Hugo	Les Misérables
Keetels	Analytical French Grammar
Keetels	Collegiate French Grammar
Keetels	Elementary French Grammar
Malot	Sans Famille
Mérimée	Colomba
Sandeau	Sacs et Parchemins
Theuriet	L'Abbé Daniel
Thirion	Irregular Verbs

LATIN.

Allen & Greenough	Latin Grammar
Collar	New Gradatim
Collar & Daniell	First Latin Book
Collar & Daniell	Latin Composition
Kelsey	Cæsar's Gallic Wars

GERMAN.

Collar	Shorter Eysenbach
Dippold	Scientific German Reader
Guerber	Märchen und Erzählungen
Heath	German Dictionary
Huss	German Reader
Müller & Wenckebach	Glück Auf
Storm	Immensee
Storm	Geschichten aus der Tonne
Vos	Essentials of German

HISTORY.

Text-Books:

Ashley	American Government
Channing	Student's History of the United States
Emerton	Introduction to the Middle Ages
Fiske	Civil Government in the United States
Larned	History of England
Mackenzie	Nineteenth Century
McLaughlin	American Nation
Myers	Ancient History
Myers	History of Greece
Myers	Mediæval and Modern History
Myers	Middle Ages
Myers	Modern Age
Myers	Rome: Its Rise and Fall

Supplementary Books:

AUTHOR	TITLE.
Botsford	Ancient History for Beginners
Botsford	History of Greece
Botsford	History of Rome
Bryce	American Commonwealth
Church	Greek Life and Story
Church	Stories from Herodotus
Church	Stories of the Persian Wars
Cranch	Vergil's Æneid
Dawes	How We Are Governed
Montgomery	English History
Munro	Middle Ages
Myers	General History
Sheldon	General History
Wilson	The State
Witt	Retreat of the Ten Thousand

SCIENCE.

Text-Books:

Atkinson	First Studies in Plant Life
Hessler & Smith	Essentials of Chemistry
Irish	Qualitative Analysis
Jones	Heat, Light and Sound
Lodge	Elementary Mechanics
Merriman	Strength of Materials
Newell	Descriptive Chemistry (Part I)
Wentworth & Hill	A Text Book in Physics

Supplementary Books:

Avery	School Physics
Cooley	Student's Manual of Physics
Dobbin & Walker	Chemical Theory for Beginners
Gage	Principles of Physics
Henderson & Woodhull	Elements of Physics
Noyes	Qualitative Chemical Analysis
Remsen	Chemistry—Briefer Course
Remsen & Randall	Chemical Experiments
Williams	Elements of Chemistry

MATHEMATICS.

Boyden	First Book in Algebra
Crawley	Elements of Trigonometry
Crawley	Tables of Logarithms
Hobbs	Elements of Plane Geometry

AUTHOR	TITLE.
McCurdy	Exercise Book in Algebra
Schultze	Elementary Algebra
Schultze & Sevenoaks	Plane Geometry
Wells	New Higher Algebra
Wells	Plane Trigonometry with Tables
Wells	Algebra for Secondary Schools
Wentworth	Elements of Algebra
Wentworth	New School Algebra
Wentworth	Plane and Solid Geometry
Wentworth	Plane and Spherical Trigonometry

MECHANICAL DRAWING.

Hoffman	Elementary Machine Design
Mathewson	Notes for Mechanical Drawing

MUSIC.

Graves, J. A.	The School Hymnary
Tomlin	The Laurel Song Book

LOCATION OF PUBLIC SCHOOLS.

WITH THE AREA OF THEIR LOTS AND THE TERRITORIAL BOUNDARIES OF THE DISTRICTS.

Central High School.—On the south side of State street, between School and Maple streets. Area of lot, 80,114 square feet.

District: The whole city.

Technical High School.—On the east side of Elliott street. Area of lot, 66,780 square feet.

District: The whole city.

Alden Street Primary School.—Alden street, near the junction of Walnut and Hancock streets. Area of lot, 18,767 square feet.

This district, on the east, commences at the junction of Mill and Walnut streets, extends along Walnut to Florence, along Florence (not including it) to Hancock, Hancock to Ashley, Ashley to Cedar, Cedar to Lebanon (from Nos. 11-101), James, Queen, King (Nos. 12-144), Lebanon place, Hancock, Alden (from Walnut to Nos. 78 and 85 (not inclusive), Greene (Nos. 17-44).

This district also includes the territory bounded by Hancock, Florence, Walnut and Hickory streets (including these streets, except Florence); also Cottage avenue.

Armory Street Primary and Grammar School.—On the west side of Armory street a short distance north of its junction with Liberty street. Area of lot, 131,860 square feet.

This district is bounded on the south by the Boston and Albany railroad, on the west by Cass street (including it from Linden to Liberty street). No northern and eastern boundaries are fixed.

Barrows Grammar School.—On the southeast corner of Oak and Tyler streets, near the junction of Oak and Walnut streets. Area of lot, 37,637 square feet.

Children of grades V. to VII. residing in the Strickland and East Union street school districts attend this school.

The southern boundary line of this district extends from Pine street along Cedar and Lebanon (not including the last two) to

Hancock, thence along Hancock street to Alden street, and along Alden street (not including it) easterly to Watershops pond.

All the streets mentioned above are included in this district, except when otherwise stated.

Pupils of grade VII. residing in the section of the Tapley school district east of Florida street and north of St. James avenue (including it) may attend the Barrows school.

BELMONT AVENUE PRIMARY SCHOOL.—On the north side of Belmont avenue, between Keith street and Euclid avenue. Area of lot, 21,026 square feet.

This district is bounded on the north by Mill river; on the east by Orange street (not including it) to Oakland street. Thence the boundary line runs along Oakland street (not including it) to Dickinson street, along Dickinson street to Crystal avenue, Crystal avenue to Belmont avenue, Belmont avenue to Belmont terrace, along Belmont terrace and Fairfield street, Park avenue and Park boulevard (including these streets). On the west this district is bounded by the Connecticut river.

Children of grade I. residing in this district south of Sumner avenue (including the south side of Sumner avenue) may attend the Forest Park school if they prefer.

Children residing in the White street school district west of Highland street may attend this school if they prefer.

BRIGHTWOOD PRIMARY AND GRAMMAR SCHOOL.—At Brightwood, northeast corner of Plainfield street and Talcott avenue. Area of lot, 32,646 square feet.

This district includes the village of Brightwood. The eastern boundary is the Boston and Maine railroad. The southern boundary is Lowell and Plainfield streets to the railroad, including Lowell street.

BUCKINGHAM GRAMMAR SCHOOL.—On the southeast corner of Eastern avenue and Wilbraham road near Winchester Park. Area of lot, 37,114 square feet.

This district is bounded on the north by St. James avenue from the Boston and Albany railroad to Florida street. On the west the line extends from St. James avenue along Florida street (not including it) to Bay street, along Bay and Pleasant streets (not including them) to State street; thence through the middle of State street to

Hancock, along Hancock (not including it) to Monroe; along Monroe to the railroad.

East of the New England railroad, for grades VI. to IX., inclusive, this district includes the territory from Bay to King streets, inclusive.

Pupils of grades VIII. and IX. residing in that part of the Barrows school district bounded by Wilbraham road, Eastern avenue, and Beacon street (including these streets) attend this school.

CAREW STREET PRIMARY AND GRAMMAR SCHOOL.—On the south side of Carew street, near Main street. Area of lot, 36,000 square feet.

This district is bounded on the north by Plainfield, Church, Grosvenor, Carew, and Arbor streets (including them); on the east by Chestnut street, between Grosvenor and Carew streets, and by Cass street north of Linden (including them). Thence the boundary line extends along Linden to Chestnut street and down Chestnut to Tenth street, through Tenth and Vine streets (not including them). The western boundary is the Boston and Maine railroad.

CENTRAL STREET PRIMARY AND GRAMMAR SCHOOL.—Corner of Central and Spruce streets. Area of lot, 49,154 square feet.

The northern boundary line of this district extends from Maple street along Central to Cedar, along Cedar and Lebanon to Hancock, along Hancock (not including it) to Alden, along Alden street easterly (including the streets mentioned except where otherwise stated); on the west the line extends from the junction of Maple and Central streets, along by the foot of the hill west of Maple street to Locust street; on the south by Mill river from Locust street to Allen street, thence along Allen street (including it) easterly, no boundary being fixed for the eastern side of the district. This district also includes Madison avenue and Sterns terrace.

The easterly half of Central street, between Main and Maple streets, is regarded as belonging to Central street district for those who prefer it on account of its nearness.

Pupils of grades I. to III., inclusive, residing in that part of the Alden street district which lies within the boundaries of the Central street district attend the Alden street school.

Pupils of grades I. to IV., inclusive, residing in that part of the Eastern avenue district which lies within the boundaries of the Central street district attend the Eastern avenue school.

CHARLES STREET PRIMARY SCHOOL.—On the north side of Franklin street, opposite Charles street. Area of lot, 9,951 square feet.

This district is bounded on the north by Linden street, on the east by Cass street, south of Linden, and by Webster street (including them); on the south by the Boston and Albany railroad; on the west by a line cutting Tenth, Greenwood, and Franklin streets at Nos. 93 and 94 (not including them), and by Chestnut street south of Congress.

The district includes Cass street south of Linden, Webster, Vinton, Liberty street west of Webster, Chestnut street south of Essex and north of the Boston and Albany railroad. It also includes Tenth, Greenwood and Franklin streets east of Nos. 93 and 94 (not including these numbers), and the whole of Congress street.

CHESTNUT STREET GRAMMAR SCHOOL.—On the east side of Chestnut street, near Prospect street. Area of lot, 138,787 square feet.

This district includes all the territory in the northern part of the city, the southern boundary being the Boston and Albany railroad.

Pupils of grades VI. and VII. residing in those parts of this district which are included in the Brightwood, Worthington street and Armory street districts attend the latter schools.

EASTERN AVENUE PRIMARY AND GRAMMAR SCHOOL.—On the corner of Eastern avenue and Alden street. Area of lot, 27,720 square feet.

This district is bounded on the north by King street, from Nelson avenue to its easterly terminus; on the west by Nelson avenue from King to Greene street, thence the boundary line extends along Greene street to Eastern avenue, along Eastern avenue to Manhattan, along Manhattan to Walnut, along Walnut to Hickory, along Hickory east, no easterly boundary being fixed for the district. All the foregoing streets, except Walnut, are included in this district, as also Alden street east of and including Nos. 78 and 85. Cottage avenue is not included in this district.

For grade IV., this district includes Lebanon place, Lebanon street (between Nelson avenue and Hancock street), and Hancock street between King and Alden streets.

EAST UNION STREET PRIMARY SCHOOL.—On the north side of Union street, between Hancock street and Eastern avenue. Area of lot, 25,779 square feet.

The boundary line of this district extends from State street along Hancock street to Monroe street, along Monroe street to Eastern avenue, thence along Eastern avenue to Wilbraham road, along Wilbraham road to the railroad, along the railroad to King street, along King street (not including it) to Hancock street, and along Hancock to State street before mentioned, including all the streets mentioned except where otherwise stated.

FOREST PARK PRIMARY AND GRAMMAR SCHOOL.—On Garfield street, off Belmont avenue. Area of lot, 62,630 square feet.

All children of grades V. to IX. living in the Belmont avenue school district and all children of grades VI. to IX. living in the White street school district will attend this school.

Pupils of all grades living in the district bounded by Park avenue, Fairfield street, Belmont terrace, Belmont avenue, Crystal avenue (not including these streets), Dickinson street (including it between Oakland street and Sumner avenue) will attend this school.

The whole of Oakland street, for all grades, is included in this district.

Children of grade I. living in the Belmont avenue school district south of Sumner avenue (not including the north side of Sumner avenue) may attend this school if they prefer.

HOMER STREET PRIMARY AND GRAMMAR SCHOOL.—On Homer street, between State street and Wilbraham road. Area of lot, 52,200 square feet.

This district is bounded on the west by the New England railroad, except that Cambridge street, Dawes street, Andrew street north of Burr, and Burr street between Cambridge and the New England railroad, are not included in this district; on the north by Bay street (including it); on the south by the Eastern avenue district, no boundary being fixed for the eastern side of the district.

HOOKER PRIMARY AND GRAMMAR SCHOOL. On the east side of Main street, between Tenth and Greenwood streets. Area of lot, 33,411 square feet.

This district is bounded on the north by Tenth and Vine streets (including them); on the east by a line cutting Tenth, Greenwood, and Franklin streets at Nos. 93 and 94 (including them), Sharon street at Nos. 64 and 65 (not including them), Ferry street at Nos. 185 and 186 and Liberty street at Nos. 85 and 86 (including them); on the south by the Boston and Albany railroad; on the west by the Boston and Maine railroad.

For grades IV. and V., this district is bounded on the east by Chestnut street between Essex and Sharon streets.

This district includes Congress street in grades IV. and V. only.

This district includes pupils of grades I. to III., inclusive, living south of the Boston and Albany railroad, west of Main street, and north of Bridge street (not including it).

HOWARD STREET PRIMARY AND GRAMMAR SCHOOL.—On the south side of Howard street. Area of lot, 51,029 square feet.

This district is bounded on the north by Bridge street (not including it between Main and Chestnut streets); on the east by Chestnut and Maple streets (not including these streets) from Bridge street to Cross street; on the south by Cross and Howard streets.

Children of grades VI. and VII. living in the South Main street school district and children of grades IV. A to VII. living in the William street school district also attend this school.

All the streets mentioned above are included in this district, except when otherwise stated.

The easterly half of Central street, between Main and Maple streets, is regarded as belonging to Central street district for those who prefer it on account of its nearness.

INDIAN ORCHARD PRIMARY AND GRAMMAR SCHOOL.—At the corner of Worcester and Myrtle streets, Indian Orchard village. Area of lot, 40,736 square feet.

This district includes the village of Indian Orchard, except that for primary grades it includes only the section west of Cedar street.

INDIAN ORCHARD PRIMARY SCHOOL.—Main street, Indian Orchard village. Area of lot, 22,500 square feet.

This district includes that part of the village (for primary grades only) lying east of Cedar street, not including it.

JEFFERSON AVENUE PRIMARY AND GRAMMAR SCHOOL.—On the south side of Jefferson avenue, corner of North street. Area of lot, 21,079 square feet.

This district is bounded on the west by the Boston and Main railroad, on the south by Plainfield, Church, Grosvenor and Carew streets (not including them), no boundaries being fixed for the northern and eastern sides of this district.

SCHOOL STREET PRIMARY AND GRAMMAR SCHOOL.—Southeast corner of School and High streets. Area of lot, 78,596 square feet.

This district is bounded on the north by Pearl street (not including it), and by State from Byers street to Walnut street; on the west by Chestnut and Maple streets, from Pearl to Avon place; on the south by Avon place, Mulberry and Union streets to Walnut, and on the east by Walnut street (not including it), including the streets mentioned, except when otherwise stated.

STATE STREET GRAMMAR SCHOOL.—On the south side of State street, west of the Central high school. Area of lot, 30,778 square feet.

This school is for pupils of grades VIII. and IX. only, residing in the Barrows, Howard street, and that part of the Worthington street district south of the railroad, and in that part of the Tapley district east of Florida street and north of St. James avenue (including it). Pupils of grades VII., VIII., and IX., residing in the School street district, also attend this school.

SOUTH MAIN STREET PRIMARY AND GRAMMAR SCHOOL.—On the east side of Main street, corner of Acushnet avenue. Area of lot, 18,850 square feet.

For primary grades, this district is bounded on the north by Whitney avenue, Fremont and Central streets (not including these streets); on the east by the Central street district; on the south by Mill river.

For Grades IV. and V., the northern boundary of this district is Fremont and Central streets (including them); on the east and south the same as for primary grades.

STRICKLAND PRIMARY AND GRAMMAR SCHOOL.—On the southwest corner of Oak and Union streets. Area of lot, 6,050 square feet.

This district is bounded on the north by the Boston and Albany railroad. The eastern boundary extends from the railroad to Florida street, and along Florida street (including it) to Bay street, along Bay and Pleasant streets (including them) to State street, thence through the middle of State street to Hancock street, and along Hancock (not including it) to King street. On the south the district is bounded by King and James streets (not including them); on the west the line extends from the railroad to Federal street, along Federal and Walnut streets (including them) to Pine street, and along Pine street (including it) to Cedar street.

TAPLEY PRIMARY AND GRAMMAR SCHOOL.—On the southwest corner of Bay and Sherman streets. Area of lot, 45,083 square feet.

This district is bounded on the north by the Boston and Albany railroad. On the west the line extends from the railroad to Florida street, and along Florida street (not including it) to Bay street. Thence the line extends through Bay and Pleasant streets (not including them) to State street, thence along State street (including it, except the south side between Stebbins and Hancock streets) to the New England railroad (including Winchester and Hawley streets). This district is bounded on the east by the New England railroad, except that Cambridge street, Dawes street, Andrew street north of Burr, and Burr between Cambridge and the New England railroad, are included in this district.

WHITE STREET PRIMARY AND GRAMMAR SCHOOL.—On the west side of White street between Dawson avenue and Buckler street. Area of lot, 100,000 square feet,

This district is bounded on the north by Mill river; on the west by Orange, Oakland, and Dickinson streets. Oakland street, and Dickinson street between Oakland street and Sumner avenue, are not included in this district. No southern and eastern boundaries are fixed.

Children residing in this district west of Highland street may attend the Belmont avenue school.

WILLIAM STREET PRIMARY SCHOOL.—On the south side of William street between Main and Water streets. Area of lot, 35,701 square feet.

This district is bounded on the north by Howard and Cross streets (not including them); on the east by Maple street (not including it); and on the south by Whitney avenue, Fremont, and Central streets, including these streets.

WORTHINGTON STREET PRIMARY AND GRAMMAR SCHOOL.—On the south side of Worthington street, east of Spring street. Area of lot, 38,500 square feet.

This district includes, north of the Boston and Albany railroad, pupils of grades I. to VII., inclusive, living on Sharon street east of Nos. 64 and 65 (including them); on Ferry street east of Nos. 185 and 186 (not including them); and on Liberty street between Nos. 85 and 86 (not including them) and Chestnut street. It also includes pupils of grades IV. to VII., inclusive, living on Chestnut street south of Sharon street.

On the south side of the Boston and Albany railroad, the boundary line for grades I. to VII., inclusive, extends along the Connecticut river to Bridge street, along Bridge street to Chestnut, including Bridge street only from Main to Chestnut; thence along Chestnut to Pearl, along Pearl to Federal, and along Federal to the Boston and Albany railroad, all the streets named being included.

Pupils of grades I. to III., inclusive, residing in that portion of the Worthington street school district west of Main street and south of the Boston and Albany railroad attend the Hooker school.

BOSTON ROAD UNGRADED SCHOOL.—On the north side of Boston road, a little east of Jasper street, about four miles from Court Square. Area of lot, 43,560 square feet.

FIVE MILE POND UNGRADED SCHOOL.—At Dimmock's Corner, on the Boston road about five miles from Court Square. Area of lot, 18,887 square feet.

GLENWOOD UNGRADED SCHOOL.—On the north side of Springfield street, near its junction with Armory street, and near the Chicopee line. Area of lot, 43,656 square feet.

SIXTEEN ACRES UNGRADED SCHOOL.—Near Sixteen Acres pond, and near the junction of North Wilbraham road with the road leading from Ludlow to East Longmeadow, about six miles from Court Square. Area of lot, 15,056 square feet.

WACHOGUE UNGRADED SCHOOL.—On the north side of the road leading from the Watershops to Hampden, about three and a half miles from Court Square. Area of lot, 8,275 square feet.

The limits of the ungraded schools include the territory, respectively, most conveniently adjacent to said schools, without further specifications; subject, however, to any limits or alterations the Board may make.

Pupils living in ungraded school districts are allowed, after passing the primary grades, to attend such graded schools as will suit their convenience.

STATISTICS OF THE

SPRINGFIELD HIGH SCHOOLS.

CENTRAL HIGH SCHOOL

FROM ITS ORGANIZATION IN 1849 TO 1905.

Year.	Number of Pupils.	Number of Graduates.	Year.	Number of Pupils.	Number of Graduates.
1849	158		1878	407	51
1850	170		1879	426	54
1851	185		1880	405	58
1852	159		1881	372	46
1853	170		1882	346	44
1854	176		1883	322	42
1855	186		1884	322	49
1856	166	9[*]	1885	348	34
1857	156	14	1886	379	43
1858	172	14	1887	372	61[‡]
1859	166	17	1888	370	52
1860	173	25	1889	344	61
1861	163	13	1890	345	45
1862	177	17	1891	391	56
1863	174	15	1892	408	52
1864	162	5	1893	429	53
1865	146	21	1894	468	53[§]
1866	137	10	1895	483	51
1867	148	12	1896	484	58
1868	195	16	1897	525	86
1869	217	2[†]	1898	569	83
1870	207	14	1899	622	70
1871	181	19	1900	657	124
1872	172	24	1901	704	84
1873	185	21	1902	751	103
1874	201	20	1903	763	111
1875	246	16	1904	890	120
1876	336	33	1905	975	133
1877	354	27	[‖]1906	677	158

TECHNICAL HIGH SCHOOL.[¶]

Year.	Number of Pupils.	Number of Graduates.	Year.	Number of Pupils.	Number of Graduates.
1899	18		1903	120	16
1900	61		1904	162	18
1901	77	2	1905	180	13
1902	90	3	[‖]1906	624	14

---

[*] Previous to this date there were no graduating exercises.

[†] The course was changed this year from three to four years.

[‡] This was the first year that any pupils were graduated in the two-years' Business Course.

[§] The Business Course was abolished after 1894.

[¶] The Technical High School was organized in August, 1898.

[‖] Commercial Department transferred from Central High to Technical High in September, 1906.

EXPENDITURES, SCHOOL POPULATION, AND ENROLLMENT.

From the Organization of the City in 1852 to 1906.

From 1852 to 1856 expenditures for repairs were included in current expenses.

The Manual Training school was established in 1886 (reorganized as the Mechanic Arts High School in 1898); the Cooking school in 1893; and the public Kindergarten in 1894. The amounts expended under these heads are included under "Current Expenses."

YEAR.	Current Expenses.	Repairs and Alterations.	New Buildings.	School Census.	Enrollment.	Average No. Belonging.
1852	$6,558 89	....	....	2,188	2,270	1,549
1853	13,257 31	....	....	2,253	2,273	1,642
1854	15,049 89	....	....	2,449	2,561	1,621
1855	16,451 22	....	....	2,641	2,409	1,769
1856	17,501 03	....	....	2,606	2,441	1,815
1857	18,727 67	$4,146 81	$6,403 47	2,525	2,459	1,824
1858	18,494 40	3,144 54	671 00	2,675	2,569	1,862
1859	18,315 77	2,939 82	1,553 16	2,505	2,546	1,855
1860	18,115 04	3,532 04	....	2,472	2,594	1,934
1861	17,961 30	2,956 24	....	2,688	2,752	1,959
1862	19,358 08	2,601 92	....	3,090	3,027	2,133
1863	22,361 56	939 55	....	3,341	3,808	2,342
1864	29,941 54	5,662 30	10,645 00	3,709	3,753	2,298
1865	37,242 93	5,516 10	53,969 78	3,713	3,822	2,490
1866	48,542 28	5,728 90	59,062 72	3,846	3,675	3,187
1867	54,423 56	3,718 32	41,267 84	4,225	3,760	3,266
1868	66,544 60	7,529 04	62,270 59	4,141	4,029	3,304
1869	68,524 83	7,778 57	34,285 49	4,156	4,617	3,509
1870	73,636 97	4,027 70	12,444 57	4,232	4,679	3,822
1871	79,489 26	4,096 28	28,490 00	4,167	4,901	3,717
1872	92,286 88	5,086 27	71,202 63	4,331	4,853	3,674
1873	96,389 77	16,760 80	53,095 82	4,399	5,238	3,900
1874	110,066 43	16,545 76	69,979 01	4,712	5,448	4,071
1875	115,788 04	21,958 95	17,098 73	5,668	5,743	4,296
1876	106,949 96	5,221 48	....	5,408	5,890	4,481
1877	89,489 74	2,938 91	....	5,375	5,877	4,615
1878	83,087 62	1,708 02	....	5,379	5,625	4,298
1879	81,780 65	2,528 04	....	5,524	5,636	4,475
1880	83,053 74	7,497 14	1,169 69	5,865	5,834	4,538
1881	88,267 73	9,240 86	....	6,285	5,981	4,667
1882	92,081 29	9,088 23	....	6,452	6,054	4,727
1883	98,624 26	10,672 68	17,228 99	6,566	6,070	4,661
1884	107,523 95	10,159 73	7,664 96	6,583	5,520	4,327
1885	111,851 90	7,490 23	1,626 17	6,330	5,665	4,517
1886	109,990 53	7,021 26	....	6,472	5,813	4,648
1887	115,749 65	9,399 94	19,053 60	6,516	5,841	4,643
1888	124,739 06	9,348 20	30,712 40	6,416	5,922	4,647
1889	134,938 12	9,314 65	39,072 98	6,935	6,165	4,982
1890	146,488 62	16,208 53	48,943 67	7,054	6,455	5,180
1891	157,644 68	17,630 70	76,052 19	7,134	6,467	5,217
1892	163.570 40	10,447 98	13,829 18	7,318	6,970	5,585
1893	172,298 48	11,549 10	26,314 01	7,716	7,225	5,799
1894	184,592 41	10,995 75	46,562 87	8,002	7,637	6,340
1895	198,620 20	13,647 77	26,758 82	8,041	8,304	6,810
1896	219,521 84	8,911 17	43,878 11	8,307	8,717	7,266
1897	239,679 72	16,095 08	238,196 30	8,814	9,488	7,869
1898	262,972 39	38,881 78	363,249 04	9,202	10,044	8,260
1899	302,854 35	12,706 09	71,783 82	9,738	10,786	9,072
1900	321,804 66	11,437 20	81.698 41	10,251	11,261	9,300
1901	339,677 59	24,030 85	94 340 94	10,405	11,574	9,612
1902	351,999 63	13,167 60	96.268 67	10,899	12.162	10,206
1903	359,317 47	15,438 28	100,385 33	11,490	12,542	10,290
1904	399,359 63	17,847 82	87,274 88	11,738	12,842	10,818
1905	400,821 51	18,316 94	256,946 05	*13,059	13,161	11,183
1906	445,208 90	24,671 47	149,771 35	*13,359	13.601	11,372

---

* From five to sixteen years of age.

TABLE GIVING A BRIEF DESCRIPTION OF SCHOOL PROPERTY; ALSO THE VALUE OF SCHOOLHOUSES AND LOTS, ETC.

BUILDINGS.	Wood or Brick.	No. of Stories.	No. of School-Rooms.	No. of Recitation Rooms.	No. of Desks and Seats.	Condition.	Date of Occupation.	Heating Apparatus.	Value of Land.	Value of Buildings.	Value of Furniture.	TOTAL.	Area Lots. (Square Feet.)
Alden Street	B	2	4		168	Good	1890	Steam	$2,500 00	$14,200 00	$306 00	$17,006 00	18,767
Armory Street	B	2	11	2	433	New	1901	Steam	3,000 00	60,053 34	2,100 00	65,153 34	131,860
Barrows	B	3	10	1	460	Good	1868	Steam	10,000 00	45,754 04	789 13	56,543 17	37,637
Belmont Avenue	W	2	4		168	Good	1893	H. A.	2,344 00	5,400 00	200 00	7,944 00	21,026
Boston Road	W	1	2		40	New	1899	H. A.	800 00	3,600 00	270 00	4,670 00	43,560
Brightwood (new)	B	2	7	2	334	New	1899	Steam	3,000 00	34,800 00	1,430 00	39,230 00	32,646
Buckingham	B	2	12	2	539	Good	1891	H. A.	8,082 00	48,000 00	2,351 00	58,433 00	37,114
Carew Street	B	2	12	2	571	Good	1894	H. A.	8,500 00	45,000 00	946 00	54,446 00	36,000
*Carlisle	B	2	1			Good		Stove	800 00	1,000 00		1,800 00	43,569
Central Street	B	3	16		623	Good	1871	Steam	11,500 00	63,806 80	1,708 15	77,014 95	49,154
Charles Street	B	2	4		184	Good	1890	Steam	6,000 00	14,000 00	248 00	20,248 00	9,951
Chestnut Street	B	3	26		1,057	New	1903	Steam	34,000 00	113,512 38	4,948 54	152,460 92	138,787
*Dry Bridge	W	1	1			Good	1881	Stove	300 00	1,200 00		1,500 00	11,434
Eastern Avenue	B	2	7	2	254	New	1899	H. A.	3,200 00	29,270 00	1,074 00	33,544 00	27,720
East Union Street	B	2	8	2	294	Good	1876	Steam	2,000 00	25,600 00	1,235 00	28,835 00	25,779
**Emery Street	B	2	4		172	Fair		Stove	5,000 00	10,000 00		15,000 00	6,819
Five Mile Pond	B	2	1		39	Good		Stove	100 00	2,000 00	45 00	2,145 00	18,887
Forest Park	B	3	18	1	717	New	1899	Steam	8,300 00	82,000 00	2,400 00	92,700 00	62,630
Glenwood	B	2	4		168	New	1903	Steam	1,500 00	16,249 85	747 31	18.497 16	43,656
High (Central)	B	3	16	20	776	New	1898	Steam	98,800 00	335,000 00	15,000 00	448,800 00	80,114
High (Technical)	B	3	6	2	252	New	1906	H. W.	54,000 00	276,404 38	13,000 00	343.404 38	61 700
Homer Street	B	2	9	2	348	New	1898	Steam	7,000 00	36.000 00	1.737 00	44,737 00	52,200
Hooker	B	3	14	2	584	Good	1866	Steam	33,000 00	60,000 00	2,315 00	95,315 00	33,411
Howard Street	B	2	13	2	562	New	1906	Steam	21,500 00	55.806 71	2,160 00	79,466 71	51,029
I. O. Grammar	B	3	13	2	382	Good	1868	Steam	1,500 00	62.715 00	1,423 00	65,638 00	40,736
I. O. Primary	W	2	4	1	235	New	1898	H. A.	1,800 00	12,000 00	720 00	14,520 00	22,500
Jefferson Avenue	B	2	9	2	400	Good	1889	Steam	5,000 00	40,000 00	1,000 00	46,000 00	21,079
***Pynchon	B	2	8	2	246	Good	1891	H. A.	16,600 00	31,000 00		47,600 00	20,885
School Street	B	2	4	1	185	Good	1892	Steam	19,000 00	18,000 00	600 00	37,600 00	78,596
Sixteen Acres	B	2	2		72	Good		Stove	100 00	2,000 00	42 00	2,142 00	15,056
South Main Street	B	2	13	2	510	Good	1896	Steam	13,800 00	43,000 00	2,400 00	59,200 00	18,850
State Street	B	3	6	10	541	Good	1874	Steam	44,000 00	80,000 00	3,025 00	127,025 00	30,778
Strickland	B	2	6	3	259	Good	1884	H. A.	5,000 00	20,000 00	613 00	25.613 00	6,050
Tapley	B	2	14	2	608	Good	1888	Steam	10,000 00	69,019 63	2,469 91	81,489 54	45,083
Wachogue	W	1	1		40	Fair		Stove	100 00	800 00	35 00	935 00	8,275
White Street	B	2	14	2	378	New	1905	Steam	4,500 00	49.500 00	1,700 00	55,700 00	100.000
William Street	B	2	11	2	406	New	1901	Steam	16,450 00	57,300 00	2,200 00	75.950 00	35.701
Worthington Street	B	3	11	1	529	Good	1869	Steam	16,600 00	50,000 00	848 00	67,448 00	38.500
Office Building	W	2				Poor		Steam	8,000 00	3,000 00	1,200 00	12,200 00	6,872
York Street									2,000 00			2,000 00	15,000
North Street									11,400 00			11,400 00	62,500
Sumner Avenue									11,500 00			11,500 00	85,300
			326	72	13,534				$512,576 00	$1,916,992 13	$73,286 04	$2,502,854 17	

*Unused.
**Used for Storehouse.
***Used by city for Municipal Building, Jan. 23, 1905.

Under Heating Apparatus, H. A.=Hot Air.
" " " H. W.=Hot Water.

TEACHERS' SALARIES.

(REGULAR MAXIMUM.)

Central High School:—	
Principal,	$3,500
Teachers, men,	1,000—2,200
Teachers, women,	600—1,200
Teachers of Music (part time),	350
Technical High School:—	
Principal,	3,000
Teachers,	750—2,300
Grammar Schools:—	
Principals,	1,500—2,000
Principal's Assistant (Grade IX.),	700—850
Principals of Primary and lower Grammar Grades,	700—1,000
Principals of Primary Schools,	700—750
Teachers of Grades I.-VIII.,	600
Assistants, not in charge of room,	375
Kindergartens:—	
Head Kindergartners,	550—600
Assistants,	400

SUPERVISORS AND SPECIAL TEACHERS.

Supervisor of Primary Grades,	$2,200
Supervisor of Drawing,	1,800
Assistant Supervisor of Drawing,	600—700
Supervisor of Music,	1,500
Assistant Supervisor of Music,	700
Supervisor of Penmanship,	1,200
Supervisor of Elementary Science,	900
Supervisor of Manual Training in Grammar Grades,	1,700
Supervisor of Physical Training,	1,500
Teacher of Sewing,	700
Assistant Teachers of Sewing,	600—650
Teachers of Manual Training in Grammar Grades,	700—1,000
Teachers of Cooking,	600—800

Teachers without experience, in grades I.-VIII., in charge of a room, begin on a salary of $400 for the first year, and have an annual increase of $50 until the maximum of $600 is reached. Assistants, without experience and not having charge of a room, receive $350 the first year and $375 thereafter.

There are special maximum salaries, as follows: For grades I.-VII., $650; for grade VIII., $750; and for grade IX., $850. These salaries are granted only to teachers who are doing work of superior excellence, and a unanimous vote of the entire Board, excepting the Mayor, is required to grant the whole or any portion of them.

SALARIES OF JANITORS.*

Schools.	Salary per year.	†Extra per night.
Alden Street,	$432	
Armory Street,	816	
Barrows,	780	
Belmont Avenue,	432	
Boston Road,	144	
Brightwood,	684	
Buckingham,	888	
Carew Street,	888	
Central Street,	960	
Charles Street,	432	
Chestnut Street, Janitor,	1,200	$0.90
Chestnut Street, Engineer,	900	.90
Eastern Avenue,	684	
East Union Street,	684	
Five Mile Pond,	72	
Forest Park,	1,440	
Glenwood,	420	
High (Central), Engineer,	1,200	
High (Central), Fireman,	720	.90
High (Central), Janitor,	600	.90
High (Central), Janitor,	600	.90
High (Technical), Engineer,	1,200	
High (Technical), Fireman,	720	.90
High (Technical), Night Fireman,	$0.90 per night.	
High (Technical), Janitor,	1,116	.75
High (Technical), Janitor,	600	.90
Homer Street,	684	
Hooker,	960	
Howard Street,	960	.90
Indian Orchard Primary,	504	.75
Indian Orchard Grammar,	960	.75
Jefferson Avenue,	720	
School Street,	456	
Sixteen Acres,	108	
South Main Street,	816	
State Street,	720	
Strickland,	564	
Tapley,	960	
Wachogue,	66	
White Street,	756	
William Street,	816	
Worthington Street,	780	
Vernon Street Office,	paid per hour.	

---

*These salaries are determined by the City Government and include allowance for cleaning floors.

†This extra sum is paid to janitors of buildings in which there is an evening school.

SPRINGFIELD PUBLIC SCHOOLS.

RATES OF TUITION FOR NON-RESIDENT PUPILS.

DAY SCHOOLS.	First Term.	Second Term.	Third Term.	Fourth Term.	Year.
Central High School,	$30 00	$15 00	$15 00	$15 00	$75 00
Technical High School,	30 00	15 00	15 00	15 00	75 00
Grammar Schools,	14 00	7 00	7 00	7 00	35 00
Primary Schools,	8 00	4 00	4 00	4 00	20 00
Ungraded Schools,	8 00	4 00	4 00	4 00	20 00

EVENING SCHOOLS.	FOR THE SEASON
High,	$15 00
Grammar and Primary,	20 00
Draughting,	10 00
Free-hand Drawing,	10 00
Trade Classes,	20 00

Tuition is payable one term in advance. It should be paid directly to the Tax Collector at Municipal Building, who will give a receipt for it. Upon presentation of this receipt to the Superintendent a permit will be given the pupil for admission to school.

FIRE COMMISSIONERS.

REPORT OF THE

BOARD OF COMMISSIONERS

OF

THE FIRE DEPARTMENT.

To His Honor, the Mayor, and Members of the City Council.

The Board of Commissioners of the Fire Department herewith respectfully submit their annual report:—

MEMBERSHIP OF BOARD.

Henry L. Hines, term expires first Monday of May, 1907.
James E. Dunleavy, term expires first Monday of May, 1908.
Napoleon E. Russell, term expires first Monday of May, 1909.
James W. Kirkham, term expires first Monday of May, 1910.
Arthur H. Rogers, Alderman and Chairman of the Fire Department Committee of City Government, *ex officio*.

Organization: James E. Dunleavy, Chairman; Henry L. Hines, Secretary.

EXPENSES.

Although several men have been appointed to the permanent force who were not included in the pay-roll when the annual appropriation was asked for, substantially increasing the expenses of the department, we have succeeded in paying all bills contracted during the year, and have a small balance on hand. This has been made possible by diligence and watchfulness on the part of Deputy Chief Daggett, who acts as the Quartermaster in the purchase and distribution of the supplies for the department, and by some of the members of this Commission personally looking after the repairs upon the buildings and grounds of the department.

BUILDINGS.

All urgent repairs and such necessary ones as the appropriation would permit have been made upon the buildings during the year.

The recommendation of this Board for better fire protection at Indian Orchard and the Forest Park section resulted in your Honorable Body passing a special appropriation for the purpose of building additions to the fire stations now located in these districts, and equipping same with steam fire engines. Contracts were made, upon plans and specifications drawn by B. Hammett Seabury, architect of this city, and the work of construction is rapidly progressing under his personal supervision and will be finished on schedule time.

The purchase of more land for these additions was not necessary,—the city under advice and recommendation of this Board having acquired sufficient land at time of the original purchase. The addition to the Oakland and Dickinson street station is being built sufficiently large to accommodate a ladder truck, it being the opinion that one will be needed in this section within a very short time.

APPARATUS.

The apparatus, with the exception of a few pieces which have been used in the service for a long period of time, is in good condition.

The new Seagrave Aerial Ladder Truck, fitted with their patent quick-raising device, purchased by this Commission from the Combination Ladder Company of Providence, R. I., under special authority from your Honorable Body, and a detailed description of which was submitted at that time, was delivered during the year and immediately placed in commission at headquarters. As a ladder truck for general use, and more especially as a life-saving appliance, for which it is especially adapted and intended, we believe it has no superior. At the test previous to its acceptance by this Board, two of our men, although new to this particular style of ladder, succeeded in raising it without apparent effort to the height of eighty feet, against one of our business blocks, in thirty-five seconds. When you compare this record with that for raising old style aerials, which required four men—by great effort—several minutes, its value can be appreciated.

We have entered into an agreement with the International Power Company to build two second size Amoskeag Steam Fire Engines, to thoroughly repair the Number 10 Engine, located at the Armory Street station, which has been in the service for over thirty years,—and because of its lightness is well adapted for service in this section,—and to exchange the Junket Engine, the oldest engine in service, for an engine recently obtained by the Power Company from the city of Detroit, all for the sum of $11,500. The new engines will be fitted with rubber tires, and will in all other respects be up to date. Should our new houses be completed before these engines are delivered, the Power Company has agreed to deliver to us engines to be placed in these houses, free of charge, to remain until replaced by the new engines.

No doubt the most interesting, as well as the most valuable adjunct to the apparatus of the department is the Automobile,—designated as "Auxiliary Squad A of the Springfield Fire Department," which was purchased by the Board and placed in commission at the Chestnut street fire station.

Before this machine was contracted for, this Commission as a whole spent much time and thought in looking into the merits of the various automobiles made in this section of the country and endeavoring to decide whether or not a vehicle of this kind would be a success for the purpose for which it was intended.

After a thorough investigation and much experience gained in trying out machines under conditions as would obtain for use in the department, it was the unanimous verdict that such a machine would be a success, and we entered into a contract with the Knox Automobile Company of this city to furnish the department with a four cylinder machine, with especially designed body, and capable of carrying eight men. In our judgment the machine produced by this company was far ahead of anything we had seen, besides possessing the advantage of being manufactured at home, where the machine might be repaired or new parts furnished, if needed, at short notice. The amount paid for this machine was at least one fourth less than the market price for machines of like power and construction.

It was delivered and placed in commission on September 24 last and has since that time answered over fifty alarms of fire, from all parts of the city, which has given it good opportunity to show its worth.

For getting men to a fire rapidly and promptly and at a time when needed most, it is an absolute success, and its value cannot be over-estimated, and we confidently predict that before long machines of this kind will be in general use, for carrying the members of fire departments to fires, thus relieving the fire-fighting apparatus from much weight, thereby enabling it to also reach the fire more quickly and with much less effort than at present.

In the contract for the building of this machine, entered into by this Commission and the Knox Company, it is stipulated that the city shall have the right to have built one other machine exactly like the one in present use, for the same price, provided same is ordered within six months from date of contract, which time will expire on March 23, 1907, and we believe that the best interest of the city will be served and the department materially strengthened by the immediate purchase of another machine to be located at the Walnut street house, where there is sufficient room to house it without further expense.

A machine placed in this section could attend fires in the hill section and at Forest Park, Squad A could look after the balance of the city, while both could answer all alarms in the business section, thereby insuring at least fourteen extra men at the scene of the fire, within one or two minutes after the first round of the alarm has rung in, rendering valuable service, especially in raising ladders, which Squad A is becoming proficient in by reason of frequent practice.

Another machine would also save much of the wear and tear of the one now in use, and reduce the work now performed by the men of Squad A, who have been doing much more than their share, for the past three months.

We further recommend to your Honorable Body the purchase of automobiles for the Chief and Deputy Chief, as we believe it is imperative that the commanding officers of the department should be at the fire as quickly as possible. The chauffeurs, or drivers for these machines, if purchased, could also perform fire duty, which they are now unable to do on account of being obliged to care for their horses; consequently, replacing horses with automobiles for these officers would be in the line of economy as well as efficiency.

The straight Chemical Engine, which has been in service at Chestnut street station, has been transferred to Hose 3 at headquarters, to make room for Squad A; Hose No. 7, also located at this station, has been equipped with a chemical tank and rubber tires, making the service from this important station more efficient than before. The Chemical Combination which was located at Hose 3, one of the first of the kind purchased by the department, and too heavy and cumbersome for good fire service, has been placed in reserve and will be used as a spare.

The following is a list of the apparatus now under control of this department:—

Six steam fire engines with hose wagons, five of which have chemical attachments.
One steam fire engine in reserve.
Two chemical engines.
Three chemical and hose combination wagons.
One water tower.
Three hose wagons, with chemical attachments.
Two aerial ladder trucks.
Three hook and ladder trucks.
One ladder truck in reserve.
One hose-reel stored at headquarters.
One hose-reel located in Jenksville, Indian Orchard.
One trolley transportation car.
Two Chief's wagons.
One Chief's wagon in reserve.
One supply wagon and sleigh for each station.
One wagon for fire alarm service.

PERMANENT FORCE.

We renew our recommendation of last two years, that the permanent force be increased each year until the department is placed on a permanent basis. We therefore recommend that the permanent force be increased by fifteen men the coming year, as the putting into service of the new apparatus already contracted for will require several additional appointments.

At present the ordinances permit the department to consist of one hundred and five permanent men, exclusive of the Chief, Deputy Chief, and Superintendent of the Fire Alarm, not exceeding sixty call men and twenty-five running members. With the permanent force increased by fifteen men, we believe that the call force could, without impairing the efficiency of the department, be reduced to twenty-five, and the running force dropped entirely. An ordinance to that effect will probably be suggested to your Honorable Body during the ensuing year by this Board.

FIRE ALARMS.

We respectfully call your attention to the report of the Superintendent of the Fire Alarm, which is made a part of this report. The recommendations therein contained will be a subject for the further consideration of this Board during the coming year.

FIRES AND LOSSES.

The number of alarms for the year past was 403. The loss on property amounted to $105,771.28, the value of property at risk, $1,291,230.

The insurance loss amounted to $102,123.28; the uninsured, $3,649.00.

MISCELLANEOUS.

There has been placed in the Bond street station a heater for keeping up steam in the fire engine located at that house. It is manufactured by The Holyoke Valve & Hydrant Company of Holyoke, Mass., and is claimed to be an improvement over the old method for heating water in engines, which was unreliable and unsatisfactory. After a fair trial, if found satisfactory, it is the intention of the Commission to have this style of heater installed in more, and perhaps all, of the engine houses during the coming year if the appropriation will permit.

CIVIL SERVICE.

The examination conducted by the Civil Service Commission for membership in this department has been materially changed during the last few months,—the present system pertaining more to the physical and less to the mental condition of the applicant than former examinations.

It would seem as if this was a change for the better, and we are informed by one of the examiners that over one hundred papers have been delivered to applicants for positions in this department since the change went into effect, which promises a large eligible list to make selections from in the future.

ROLL OF HONOR.

There have been added to the roll during the year the names of Sidney Bowers, Captain of Engine Company No. 4, who had been in the department since May, 1878, and Francis I. Hines, call member of Engine Company No. 8, who joined the force January, 1889, both of whom lost their lives while in the discharge of duty at the Highland Baptist Church fire on January 3, 1906.

A statement of the facts and conditions which caused the death of these men was embodied in a special report made by the Commission to your Honorable Body at that time, and their faithful and meritorious service for many years in the department was duly appreciated and recognized by your Honorable Body in the unanimous passage of an order paying to the dependents of each of these men a substantial gratuity.

CONCLUSION.

It is the purpose of this Commission to administer the affairs of the department in a manner to give to the city the best possible service. We shall demand and insist upon faithful and prompt service at all times; laxity in service and discipline shall be dealt with as the best interest of the department warrants.

We desire to express to His Honor, the Mayor, and Members of the City Government, our sincere thanks for the assistance rendered this Commission and department during the year.

JAMES E. DUNLEAVY,
HENRY L. HINES,
JAMES W. KIRKHAM,
ARTHUR H. ROGERS,
Commissioners of the Fire Department.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.
Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.
Approved.

FRANCKE W. DICKINSON, *Mayor.*

REPORT OF

THE CHIEF ENGINEER.

SPRINGFIELD, MASS., December 19, 1906.

To the Honorable Board of Fire Commissioners.

GENTLEMEN:—In compliance with the ordinance governing the Fire Department, I have the honor to submit to you my thirteenth annual report.

The Department has responded to four hundred three (403) alarms of fire, one hundred sixty-seven (167) of which were bell alarms, ninety-five (95) still alarms, one hundred twenty-six (126) telephone alarms, and fifteen (15) thermostat.

The loss on property amounted to $105,771.28.

The value of property at risk on which a loss was sustained amounted to $1,291,230.00.

The insurance on property amounted to $1,142,330.00.

The insurance loss $102,122.28; the uninsured loss, $3,649.00.

Three hundred (300) examinations of buildings have been made during the year.

The appropriation and receipts amounted to $128,463.51, expenditures $128,411.91, leaving a balance of $51.60 unexpended.

Accompanying this report will be found a statement of receipts and expenditures, a detailed statement of fires and alarms which have occurred from December 1, 1905, to December 1, 1906, and the cause thereof, with the names of the owners and occupants, the loss and insurance, the number of alarms to which each company responded, the location of reservoirs and fire alarm boxes, and an inventory of land, buildings, and equipment of the Department.

W. J. LITTLEFIELD,
Chief Engineer.

RECEIPTS.

Appropriation,	$128,000.00	
Sale of junk,	48.51	
Sale of manure,	265.00	
Sale of horse,	150.00	
		$128,463.51

EXPENDITURES.

Apparatus,		$3,227.69	
Buildings,		3,442.83	
Clothing,		444.29	
Fire alarm,		2,425.00	
Fire tools,		624.28	
Forage,		7,440.76	
Forest fires,		39.90	
Fuel,		3,379.57	
Furniture and bedding,		670.97	
Harness,		229.18	
Highway and grounds,		371.25	
Horses, New,	$3,685.00		
Hire,	87.33		
Shoeing,	2,683.25		
Veterinary,	400.45		
		6,856.03	
Hose,		1,239.63	
Light,		870.49	
Miscellaneous,		177.78	
Pay roll,		94,487.27	
Supplies,		1,821.65	
Telephone,		95.26	
Washing,		568.08	
			128,411.91
Balance unexpended,			$51.60

INVENTORY OF THE FIRE DEPARTMENT.

DECEMBER 10, 1906.

	LAND.	BUILDINGS.	EQUIPMENT.	TOTAL.
Armory street,	$1,100.00	$16,000.00	$6,719.00	$23,819.00
Bond street,	2,000.00	5,000.00	7,743.00	14,743.00
Chestnut street,	8,000.00	12,500.00	7,239.00	27,739.00
Hooker street,	2,500.00	20,400.00	9,921.00	32,821.00
Indian Orchard,	580.00	15,838.00	3,451.00	19,869.00
Jenksville, I. O.,		25.00	413.00	438.00
Mill street,	2,000.00	16,500.00	11,495.00	29,995.00
Oakland street,	700.00	10,000.00	3,190.00	13,890.00
Pine street,	1,750.00	6,000.00	3,851.00	11,601.00
Plainfield street,	800.00	10,500.00	3,125.00	14,425.00
Pynchon street,	20,000.00	15,000.00	26,593.00	61,593.00
South Main street,	300.00	2,000.00	1,600.00	3,900.00
Walnut street,	6,500.00	17,500.00	11,023.00	35,023.00
Winchester Park,	3,000.00	14,550.00	13,804.00	31,354.00
Fire Alarm service,			56,000.00	56,000.00
	$49,230.00	$161,813.00	$166,167.00	$377,210.00

DETAILED STATEMENT OF FIRES FOR THE YEAR ENDING NOVEMBER 30, 1906.

Date.		Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
									Loss on	Ins. on	Loss on	Ins. on	
1905.													
Dec.	2	7:14 p.m.	41	45 Ferry St	Frame	C. Berry	C. Berry	Dwelling	$37 50	$2,000	$65 00	$800	Unknown.
"	5	5:20 p.m.	Ther.	Birnie Ave									False alarm.
"	7	9:03 a.m.	Tel.	Wilbraham Road.									Automobile.
"	7	5:36 p.m.	923	109 Suffolk St	"	E. Allen	M. Seidemann	Hen Coop	15 00	None	5 00	None	Unknown.
"	7	10:21 p.m.	42	30 Emery St	"	M. Cunningham	M. Cunningham.	Dwelling	75 00	4,000	39 90	800	Overheated hot air flue.
"	9	10:47 p.m.	Tel.	Berkshire St	"	A. M. King	A. M. King	Dwelling	200 00	200	300 00	None	Unknown.
"	10	6:35 a.m.	Ther.	South St.									False alarm.
"	10	10:55 a.m.	35	577½ Main St	Brick	N. D. Butterworth	E. Hamlin	Dwelling	56 14	14,000	Slight		Gasoline stove.
"	11	5:07 a.m.	7	97 Ferry St	Frame	S. Pava	J. Kaufman	Barn	50 00	50	None		Unknown.
"	12	6:31 p.m.	35	559 Main St	Brick	P. Bush	H. Beauregard	Dwelling	44 25	5,000	15 00	None	Oil heater.
"	16	5:00 a.m.	Tel.	351 Main St					None		None		Spontaneous combustion
"	16	10:45 a.m.	Tel.	270 Maple St					None		None		Plumbers' torch.
"	16	12:05 p.m.	76	177 Carew St									Automobile.
"	16	8:43 p.m.	Tel.	Catharine St									Smoke from furnace.
"	16	9:17 p.m.	Tel.	120 Yale St	Frame	C. L. Smith	C. L. Smith	Dwelling	39 88	3,000	24 50	2,000	Parlor match.
"	18	12:23 a.m.	41	199 Main St.	"	Carmody&Nugent	H. Bilgenroth	Tailor	38 00	5,000	310 00	500	Unknown.
"	19	1:35 p.m.	still	N.Y.N.H.&H.R.R.				Fruit Car	Slight		None		Oil heater.
"	20	12:41 p.m.	35	194 E. William St.	"	E. T. Davis	D. Hamel	Dwelling	30 00	2,000	25 00	None	Defective stovepipe.
"	20	1:25 p.m.	35	194 E. William St.									Rekindl'g of former fire.
"	20	4:40 p.m.	93										Needless alarm.
"	21	8:50 a.m.	Tel.	62 Westminster St.									Chimney fire.
"	21	4:03 p.m.	Tel.	63 Mulberry St				Church	None		None		Chimney fire.
"	21	5:30 p.m.	Tel.	King St	"								Heat from boiler.
"	22	3:04 a.m.	26	Bridge St	Brick		N. E. Tel. Co		None				Electric wires.
"	23	8:48 a.m.	31										Needless alarm.
"	25	11:48 a.m.	Tel.	Stearns Park	Frame	M. D. Goetting		Hotel	30 00	6,800	None		Careless with candle.
"	26	7:00 a.m.	still	Indian Orchard									Trolley car.
"	26	9:45 a.m.	Tel.	State St									Chimney fire.
"	26	5:33 p.m.	5	Worthington St					None		None		Careless with oil.
"	27	5:45 a.m.	67	67 Ventura St	"	F. Ley	H. S. Rainey	Dwelling	1,300 90	2,600	900 00	None	Defective chimney.
							L. H. Prentice				86 50	500	
"	27	9:38 a.m.	Tel.	Round Hill	Brick	Estate W. G. Breck	W. G. Breck	Dwelling	None		125 75	2,000	Unknown.
"	29	8:30 a.m.	still	406 Main St	"	H. G. Waters		Hotel	139 66	40,000	Slight		Defective fireplace.
"	29	4:00 p.m.	41	60 Sharon St	Frame	L. Pavo	L. Pavo	Barn	10 00	500	13 50	300	Unknown.
1906.													
Jan.	2	1:10 p.m.	still	Indian Orchard					None		None		Rubbish.
"	2	3:30 p.m.	still	198 No. Main St					None		None		Careless with gasoline.
"	3	8:41 p.m.	573	655 State St	"	T. Flanaghan	T. Flanaghan	Barn	400 00	400	105 00	300	Unknown.
				State St	"	High. Baptist So.		Church	39,000 00	39,300	6,024 00	6,500	Exposure loss.
				635 State St	"	F. B. Taylor		Dwelling	110 00	3,500	None		" "
				19 Stebbins St	"	A. G. Herring est.		Dwelling	16 25	1 500	None		" "
				8 and 10 Ste'bins St	"	F. B. Taylor		Dwelling	125 00	5,000	None		" "

DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Jan. 5	10:51 a.m.	9	156 Lyman St.	Brick	A. N. Mayo & Co.	A. N. Mayo & Co.	Mfg.	$450 00	$25,000	$725 00	$40,000	Spontaneous combust'n.
" 5	7:32 p.m.	Tel.	156 Lyman St.	Freight car.			Storage	None		None		Unknown.
" 6	4:00 p.m.	Tel.	230 Main St.					None		None		Careless with matches.
" 8	3:58 p.m.	493	80 Hyde Ave.	Frame.	W. E. Sanderson.	W. E. Sanderson.	Dwelling	40 00	2,800	155 00	500	Unknown.
" 8	9:11 p.m.	still	94 Taylor St.	"	J. Potvin		Shop	None		None		Overheated stove.
" 10	8:45 p.m.	Tel.	Oak St.									Needless alarm.
" 11	8:07 p.m.	Tel.	62 Westminster St					None		None		Chimney fire.
" 12	7:46 p.m.	Tel.	Wilbraham Road.					None		None		Vapor from gasoline.
" 15	8:38 p.m.	7	278 Chestnut St.	"	J. W. Steere & Co.	J. W. Steere & Co.	Mfg.	2,295 00	10,000	6,384 74	20,000	Unknown.
" 17	10:49 a.m.	341	6 Arlington Ave.	"	W. L. Bailey	H. Potter	Dwelling	50 00	2,500	Slight		Children pl'y'g with fire.
" 17	11:55 a.m.	36	Indian Orchard					None		None		Chimney fire.
" 20	10:30 p.m.	Ther.	43 Lyman St.	Brick	Spfd. Stm. P'r Co.	E. O. Smith & Co.	Provisions	238 77	18,000	1,494 56	17,000	Unknown.
" 21	11:15 p.m.	Tel.	Foot Walker St.	Freight car.	N.Y.N.H.&H.R.R.		Unoccupied	165 00	None			Unknown.
" 23	1:00 a.m.	83	369 Hancock St.	Frame	P. Schenke	J. Neudwick	Cigar Mfg.	100 00	None	282 30	300	Overheated stovepipe.
" 24	12:55 p.m.	still	11 George St.					None		None		Chimney fire.
" 24	3:20 p.m.	still	46 Queen St.					None		None		Stove cloth.
" 26	1:18 p.m.	still	118 Cedar St.	"	V. A. Olds	C. H. Smith	Dwelling	None		20 00	None	Unknown.
" 28	5:26 a.m.	28	78 Vernon St.									Needless alarm.
" 29	2:50 a.m.	421	84 Essex St.	"	W. H. Cohen	W. H. Cohen	Barn	175 00	300	50 52	300	Unknown
						M. Fuchs				50 00	300	
						B. Cutler				140 00	1,000	
" 29	11:40 a.m.	36	Indian Orchard	"	L. M. Gelineau	J. Soati	Confections	36 75	3,000	50 00	800	Peanut roaster lamp.
" 29	6:05 p.m.	still	Locust St.									Trolley car.
" 29	11:07 p.m.	36	230 Water St.	"	B. Delaney	L. Giorgio	Restaurant	135 00	2,000	283 00	2,000	Fat boiled over.
Feb. 1	6:43 p.m.	Tel.	Sumner Ave.									Brush fire.
" 2	5:27 a.m.	9	156 Lyman St.	Brick	A. N. Mayo & Co.			None		Slight		Spontaneous combustion.
" 2	6:05 a.m.	still	209 Dwight St.									Needless alarm.
" 2	4:45 p.m.	Tel.	Maple St.									Rubbish.
" 3	8:01 a.m.	7	120 Congress St.					None		None		Chimney fire.
" 3	11:43 a.m.	98	25 Olive St.	Frame	W. E. Miller	W. E. Miller	Dwelling	141 50	1,300	75 00	600	Overheated furnace.
" 4	12:31 p.m.	still										Needless alarm.
" 4	1:28 p.m.	421	103 Fulton St.	"	E. Dibble		Dwelling	35 00	2,000	None		Defective chimney.
" 4	2:10 p.m.	still	Indian Orchard									Grass fire.
" 4	2:20 p.m.	4	Indian Orchard									Grass fire.
" 6	11:12 a.m.	28	119 Water St.	Brick	J. E. Lincoln	J. O'Connors	Lodgings	65 00	2,000	43 00	500	Overheated hot air flue.
" 6	3:32 p.m.	Tel.	Monmouth St.									Grass fire.
" 6	10:16 p.m.	21	514 Main St.	"	T. M. Walker est.	W. Gelin	Store	181 50	19,800	1,246 14	4,150	Unknown.
" 7	6:37 p.m.	Tel.	Sixteen Acres									Brush fire.
" 8	7:26 a.m.	3	Lyman St.	Stone	B. & A. R. R. Co.		Depot	Slight		None		Oil stove.
" 8	10:12 a.m.	42	143 Main St.	Brick	Parsons & Sackett	H. Adaskin	Store	109 00	12,000	279 35	1,500	Careless with gasoline.
" 8	12:15 p.m.	still	Indian Orchard									Grass fire.
" 8	8:00 p.m.	still	Carew St.									Brush fire.
" 8	9:52 p.m.	Tel.	No. Church Ave.									Automobile.

DETAILED STATEMENT OF FIRES—Continued.

Date.		Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
									Loss on	Ins. on	Loss on	Ins. on	
Feb.	10	4:06 p.m.	Tel.	Logan St.	Wood yard.	City							Gasoline tank.
"	11	11:35 a.m.	Tel.	373½ Main St.	Brick	R. Levi	H. Eichler	Photographer	$500 00	$30,000	$395 74	$500	Unknown.
							H. Rude	Stationer			55 00	7,500	
"	14	6:16 p.m.	41	39 Sharon St.	Frame	J. Lomonsky		Unoccupied	450 00	3,000			Unknown.
"	17	9:05 a.m.	Tel.	86 Dawes St.					None		None		Chimney fire.
"	18	3:31 p.m.	45	Hampden Park	"		Unoccupied	Shed	Slight				Unknown.
"	19	1:30 a.m.	27	Indian Orchard									False alarm.
"	23	1:52 p.m.	61	109 Mill St.	"	Sp'gf'ld Waste Co		Dry room	None		Slight		Overheated dry room.
"	23	6:55 p.m.	still	Pynchon St.									Rubbish.
"	24	11:57 p.m.	5	216 Worth'ton St.	Brick				None		None		Unknown.
"	25	2:05 a.m.	76	94 Bond St.	Frame	L. Ratner	M. Godensky	Barn	700 00	1,500	325 00	600	Unknown.
				94 Bond St.	"	L. Ratner		Dwelling	35 00	8,000	None		Exposure loss.
"	26	8:11 p.m.	Tel	No. Main St.									Needless alarm.
Mar.	1	11:35 a.m.	still	Mill St.									Grass fire.
"	1	3:40 p.m.	Tel.	108 Inger'l Grove									Grass fire.
"	1	4:57 p.m.	still	87 Court St.	Brick	City	M. Landauer	Dwelling	Slight		125 00	1,000	Kettle of fat boiled over.
"	2	7:45 p.m.	Tel.	510 Main St.	"	T. M. Walker est.	J. Glynn	Hotel	Slight		74 00	6,000	Heat from oven.
"	2	10:00 p.m.	still	936 Main St.					None		None		Chimney fire.
"	3	3:55 p.m.	Tel.	10 Symonds Ave.					None		Slight		Careless smoking.
"	5	7:16 p.m.	35	69 Wilcox St.					Slight		Slight		Oil lamp.
"	10	10:55 p.m.	still	Walnut St.									Trolley car.
"	12	12:57 p.m.	Tel.	Armory St.	Cord Wood.				Slight				Spark from locomotive.
"	13	2:32 a.m.	84	U. S. Watershops					Slight		None		Spark from forge.
"	13	10:45 a.m.	Tel.	14 Liberty St.									False alarm.
"	17	9:23 p.m.	Tel.	24 Mattoon St.					None		None		Chimney fire.
"	18	9:26 a.m.	76	137 Bond St.					None		None		Chimney fire.
"	19	5:33 p.m.	Tel.	273 Belmont Ave.									Needless alarm.
"	20	12:30 p.m.	23	41-45 Dwight St.	Frame	W. Watts	R. Labelle	Dwelling	None		5 00	1,000	Defective flue.
"	22	7:55 a.m.	36	Indian Orchard					None		None		Chimney fire.
"	23	11:00 a.m.	43	Indian Orchard	Hen House.				50 00	None	None		Children and matches.
"	23	5:50 p.m.	Tel.	34 Grosvenor St.					None		None		Chimney fire.
"	24	8:25 a.m.	Tel.	573 State St.					Slight		None		Heat from furnace.
"	24	5:30 p.m.	Tel.	17 Dwight St.					None		None		Careless with gasoline.
"	24	7:59 p.m.	5	186 Worth'gt'n St	Brick	S. R'lty & Tr. Co.	E. J. Boucher	Barber	165 00	150,000	190 00	500	Unknown.
							C. S. Saxton	Jeweler			550 00	1,000	
							A. E. Caulpe	Jeweler			100 00	200	
							E. W. Oatley	Storage			25 00	500	
							H. Johnson	Storage			146 99	500	
"	24	8:44 p.m.	76	190 Carew St.	"	M. F. Strong	W. S. Hoffman	Flats	157 00	6,000	30 00	None	Overheated furnace.
							R. L. Wilcox				25 00	None	

DETAILED STATEMENT OF FIRES—Continued.

Date.		Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
									Loss on	Ins. on	Loss on	Ins. on	
Mar.	25	1:17 p.m.	Tel.	33 Mulberry St....	Frame......	F. A. Robbins.....	F. A. Robbins......	Dwelling......	7 20	4,200	None		Unknown.
“	26	10:07 p.m.	Tel.	31-33 Bridge St ...					None		None		Gas stove and tubing.
“	29	7:57 a m.	still	Walnut St........					None		None		Trolley car.
“	29	9:28 a.m.	Ther.	43 Lyman St......					None		None		Mice and matches.
“	29	5:40 p.m.	Tel.	490 Liberty St.....			W. A. Dennett.....	Dwelling......	None		15 00	1,000	Chicken brooder.
“	31	9:38 a.m.	still	853 Main St.......									Child pl'y'g with firearms
April	1	9:25 a.m.	574	31 Thompson St...					Slight		None		Overheated ash chute.
“	1	8:45 p.m.	Tel.	White St..........									Needless alarm.
“	2	8:27 p.m.	still	58 Sargeant St....					Slight		None		Careless with matches.
“	3	6:20 p.m.	Tel.	Bay St........ ...									Grass fire.
“	4	9:31 a.m.	5	242 Worth'gton St	Brick.......	I. Harmon......	Union H't & C'p Co	Mfg...........	356 00	1,200	900 00	1,200	Falling stovepipe.
							C. D. Lafley........	Barber..			21 00	400	
							J. G. Drake........	Painter.......			6 00	300	
“	4	10:03 a.m.	36	217 Water St......	“	R. McCarthy......	A. Funai..........	Grocer........	11 00	1,200	5 00	500	Unknown.
“	5	1:30 p.m.	Tel.	Toll Bridge.......					None				Unknown.
“	7	4:45 p.m.	still	Allen St..........									Rubbish.
“	7	9:15 p.m.	still	Elm St...........									False alarm.
“	8	4:30 p.m.	Tel.	Franklin St.......									Grass fire.
“	9	9:14 a.m.	68	212 Allen St......	Frame.	W. H. Ashwell....	W. H. Ashwell.....	Dwelling	22 00	2,000	50 00	None	Careless with matches.
“	9	4:40 p.m.	still	109 Congress St...					None		None		Chimney fire.
“	9	4:47 p.m.	still	Walnut St.......									Trolley car.
“	11	2:14 p.m.	Tel.	8 Smith St........	......	T. Shea	J. Kershaw........	Dwelling	5 00	3,200	20 35	800	Children and matches.
“	12	12:35 p.m.	Tel.	85 Hayden Ave....	“				None		None		Chimney fire.
“	13	6:38 a.m.	still	115 Florence St...	“	M. A. Curtis......	M. A. Curtis.......	Dwelling......	42 70	2,300	15 00	1,500	Defective fireplace.
“	13	11:23 a.m.	59	118 Cornell St.....	“	T. A. Kenyon...	E. E. Call.........	Dwelling	1,220 50	3,600	486 36	500	Hot ashes.
							A. L. Woodworth..				595 00	1,000	
“	13	1:25 p.m.	still	Sherman Road....									Grass fire.
“	14	6:55 a.m.	27	Indian Orchard...					None		None		Chimney fire.
“	15	1:15 a.m.	still	Water St.........	Freight car.				None				Unknown.
“	15	4:00 a.m.	271	Wight Ave........	Deliv. wagon	Forbes & Wallace		Storage.......			70 45	2,500	Unknown.
“	16	10:33 p.m.	85										False alarm.
“	17	1:45 p.m.	76	Indian Orchard...									Grass fire.
“	17	7:05 p.m.	still	135 Lyman St.....					None		None		Overturned oil lamp.
“	18	8:54 p.m.	41	Rear 39 Ferry St..					None		None		Careless smoking.
“	19	11:35 a.m.	Tel.	Leyfred Terrace...									Brush fire.
“	19	3:00 p.m.	still	Indian Orchard...									Grass fire.
“	19	3:30 p.m.	Tel.	King St..........									Brush fire.
“	19	3:45 p.m.	still	Armory St........									Grass fire.
“	19	5:02 p.m.	Tel.	57 Osgood St......									Rubbish.
“	19	7:25 p.m.	Tel.	Orleans St........									Rubbish.
“	22	12:00 p.m.	still	Fisk Ave.........									Rubbish.
“	23	5:20 p.m.	17	459 State St......	Brick.......	J. J. Sullivan est..	F. A. Bicknell.....	Gas fitter......	53 60	8,500	Slight		Unknown.
“	24	10:00 a.m.	67	483 Sumner Ave...	Frame.. ...	A. E. Collins......	E. D. Briggs.......	Dwelling......	13 50	2,500	125 00	2,000	Unknown.

DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
April 24	10:14 a.m.	27	35 Fort St.									Rubbish.
" 24	1:07 p.m.	682	402 Allen St.					None		None		Incubator.
" 24	1:25 p.m.	36	Indian Orchard									Rubbish.
" 24	4:15 p.m.	still	135 Bond St.					Slight		None		Chimney fire.
" 24	4:55 p.m.	67	Belmont Ave.									Brush fire.
" 24	5:59 p.m.	81	8 Walnut St. Court	Frame	E. D. Smith estate	W. A. King	Dwelling	$15 00	$2,500	$25 00	None	Unknown.
" 24	6:00 p.m.	Tel.	351 Main St.									Needless alarm.
" 25	9:40 a.m.	491										False alarm.
" 26	8:58 a.m.	Ther.	Hillman St.									False alarm.
" 26	5:20 p.m.	still	Cleveland St.									Grass fire.
" 26	9:59 p.m.	Tel.	383 Main St.					None		None		Hot flatiron.
" 27	2:08 a.m.	21	510 Main St.	Brick		F. D. Quilty	Hotel	None		66 00	$6,000	Smoking in bed.
" 27	11:47 a.m.	27	Water St.	Frame	N.Y.N.H.&H.R.R.		Freight Dept.	None		Slight		Unknown.
" 27	5:24 p.m.	7	237 Chestnut St.	"	C. Marcaktti	C. Marcaktti	Shed	Slight		25 00	None	Unknown.
" 27	7:10 p.m.	still	Armory St.									Dumping grounds.
" 29	12:30 a.m.	still	South St.	Iron Bridge				Slight				Unknown.
" 29	12:45 p.m.	still	Indian Orchard									Brush fire.
" 30	8:14 p.m.	Tel.	756 Worth'gton St					None		None		Oil stove.
May 2	8:10 a.m.	still	26 Liberty St.	Frame	M. McCarthy		Dwelling	12 00	3,500	None		Defective flue.
" 3	7:33 p.m.	421	85 Essex St.					None		None		Children and matches.
" 7	5:58 a.m.	7	54 Liberty St.	Brick	T. Ellison estate	B. S. Feiner	W'd&Ch'rcoal	2,962 15	3,500	2,158 64	2,500	Unknown.
			125 Ferry St.	Frame	B. Barber	B. Barber	Shop	28 00	80	None		Exposure loss.
			133 Ferry St.	"	M. Alport			15 00	1,000	None		Exposure loss.
" 8	8:45 p.m.	still	Indian Orchard									Forest fire.
" 9	4:55 a.m.	still	60 Main St.									Needless alarm.
" 9	8:27 a.m.	Tel.	Toll Bridge					None				Unknown.
" 11	11:25 a.m.	still	5 Sherman Road					None		None		Chimney fire.
" 11	4:39 p.m.	324	77 Maple St					None		None		Chimney fire.
" 12	7:35 a.m.	still	14 Grover St.									Rubbish.
" 12	10:20 a.m	4	Indian Orchard									Chimney fire.
" 12	2:48 p.m.	Tel.	472 Main St.			J. O. Sawtell	Store	None		20 00	1,300	Careless with light. cigars.
" 13	6:15 p.m.	still	Locust St.									Trolley car.
" 15	1:22 a.m.	Tel.	5 Logan St	"	W. E. Samble	J. Murphy	Gymnasium	500 00	300	237 50	500	Unknown
" 15	10:41 p.m.	53	83 St. James Ave.	"	L. A. Haynes		Unoccupied	182 00	1,000			Unknown.
" 16	3:40 a.m.	152	170 Bridge St.	Brick	E. T. Davis	N. E. Supply Co.	Store	700 00	1,000	2,957 76	14,000	Unknown.
						C. B. Woods	Storage			50 00	400	
" 16	9:19 a.m.	41	191 Main St.	"	J. Daley	J. Daley	Hotel	None		Slight		Careless with matches.
" 17	8:45 a.m.	Tel.	Forest Park									Brush fire.
" 17	11:52 a.m.	Tel.	484 Main St									Needless alarm,
" 17	4:18 p.m.	Tel.	51 Essex St.					None		None		Chimney fire.
" 19	3:20 p.m.	8	172 Dwight St.					None		Slight		Broken kettle of nitre.
" 19	7:40 p.m.	Tel.	156 State St	"	D. F. Leary	A. W. Lamson	Store	12 00	1,400	Slight		Awning falling on lamp.
" 19	8:35 p.m.	54	140 Armory St.	Frame	M. Regan		Dwelling	20 00	2,600	None		Careless with lantern.

DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings. Loss on	Buildings. Ins. on	Contents. Loss on	Contents. Ins. on	Cause and Circumstances of Fire.
May 20	1:40 a.m.	Ther.	South St..........									False alarm.
" 21	12:15 a.m.	27	Indian Orchard ..	Frame......			Shed.....	None		None		Unknown.
" 21	9:38 a.m.	41	140 Ferry St......	Brick.......	L. Lasker.........		Synagogue....	$30 00	$4,000	Slight		Careless with matches.
" 21	3:12 p.m.	Tel.	216 Eastern Ave..					None		None		Chimney fire.
" 22	9:05 p.m.	36	Indian Orchard..					None		None		Oil lamp overturned.
" 22	10:20 p.m.	41	144 Ferry St......	Frame	L. Lasker		Barn	None		None		Unknown.
" 23	1:25 p.m.	still	Wilbraham Road	Brick.......	Knox Auto. Co...	Knox Auto. Co.....		81 22	28,000	None		Spark from chimney.
" 23	11:50 p.m.	Tel.	30 Bridge St......									Needless alarm.
" 24	9:36 a.m.	7	168 Ferry St......	Frame	M. Alport.........	J. Silverman........	Dwelling	155 00	2,000	None		Heat from gas stove.
" 24	9:40 a.m.	still	586 Main St.......	Brick.......	G. P. Alderman...	E. G. Leopoulos.....	Store..........	Slight		$20 00	$1,800	Overturned kettle of lard.
" 24	11:45 a.m.	Tel.	428 Worth'gton St									Needless alarm.
" 24	6:45 p.m.	Tel.	281 Main St.......			Postal Teleg. Co....		None		None		Lightning.
" 26	9:55 a.m.	still	State St..........									Trolley car.
" 26	1:38 p.m.	still	State St..........									Trolley car.
" 26	3:45 p.m.	still	Indian Orchard ..									Brush.
" 26	8:18 p.m.	still	State St..........									Trolley car.
" 28	2:20 a.m.	Ther.	South St..........									False alarm.
" 29	7:05 p.m.	still	Fort Pleasant Ave									Trolley car.
June 1	9:50 a.m.	Tel.	58 Vernon St......	"		L. A. Hunt..........		None		5 00	None	Careless with gasoline.
" 2	10:43 a.m.	Tel.	694 Main St.......									Rubbish.
" 2	1:42 p.m.	423	1 Main St.........					None		None		Plumber's furnace.
" 2	3:47 p.m.	still	23 Main St........									Needless alarm.
" 2	11:14 p.m.	45	46 Emery St.......	Frame	L. Katz.	L. Katz.............	Dwelling	20 00	4,500	77 00	1,000	Unknown.
" 3	12:25 p.m.	36	Indian Orchard...					None		None		Oil stove.
" 6	6:12 p.m.	971	35 Eastern Ave...	"	E. A. Merchant...	D. Avery...........	Dwelling......	Slight		10 00	None	Careless with gasoline.
" 6	9:25 p.m.	still	205 Chestnut St...	Brick.......	J. H. Williams...	E. Sherman........	Store..........	None		10 00	None	Unknown.
" 7	11:14 p.m.	41	Ferry St..........	Frame......	Cohen & Rich'nd.	J. Magaziner.......	Barn...........	80 00	100	400 00	400	Unknown.
			Ferry St..........	"	W. Young........		Barn...........	25 00	300	None		Exposure loss.
			169 Main St.......	"	Cohen & Rich'nd.		Store...... ...	10 00	1,000	None		Exposure loss.
			177 Main St.......	"	Cohen & Rich'nd.		Store..........	45 00	3,900	None		Exposure loss.
" 10	5:02 p.m.	68	75 Kenz'gton Ave	"	C. D. Rood........		Dwelling......	15 00	2,000	None		Lightning.
" 11	1:39 p.m.	36										Needless alarm.
" 12	8:54 a.m.	Tel.	Rear 274 Main St..									Rubbish.
" 13	3:41 p.m.	83	20 Ashley St......	"	J. C. Curley.......	J. C. Curley........	Barn..........	575 00	700	Slight		Unknown.
" 14	1:37 p.m.	37										Needless alarm.
" 14	8:51 p.m.	23	Sanford St........									Automobile.
" 15	10:21 a.m.	72	621 Chestnut St...	"	R. J. Hamilton...	R. J. Hamilton.....	Dwelling	498 30	5,000	86 49	2,000	Careless smoking.
" 15	1:15 p.m.	Tel.										Needless alarm.
" 16	9:28 p.m.	34	9 Central St.......	"			Dwelling......	None		Slight		Cloth'g hang'g over lamp.
" 16	9:43 p.m.	621	313 Belmont Ave..	"	W. Goodenough..	J. Goldstick........	Cobbler.......	75 00		30 00	None	Falling oil lamp.
" 17	12:04 p.m.	41	136 Ferry St.......	"	L. Lasker.........	J. Hussy...........	Dwelling......	40 00	400	Slight		Oil stove.
" 17	4:10 p.m.	still	Walnut St........						4,000			Trolley car.
" 19	6:50 p.m.	still	146 Cedar St.......					None		None		Chimney fire.

DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
June 25	12:30 p.m.	73	568 Chestnut St.	Frame	H. S. Sturtevant	H. S. Sturtevant	Dwelling	$12 00	$4,000	$25 00	None	Children and matches.
“ 27	2:18 a.m.	83	337 Walnut St.	“	R. E. Clark	W. L. Beatty	Barn	200 00	200	200 00	None	Unknown.
“ 29	1:08 p.m.	462	128 Washburn	“			Barn	None		None		Careless smoking.
“ 30	11:49 a.m.	Tel.	122 Hickory St.					None		None		Grease on stove.
July 2	6:50 p.m.	still	Fort Pleasant Ave									Trolley car.
“ 4	12:20 a.m.	Tel.	Wilbraham Ave.	Freight car.				None				Incendiary.
“ 4	2:48 a.m.	94										False alarm.
“ 4	7:45 p.m.	36	22 Union St.					None		None		Fireworks.
“ 4	9:30 p.m.	921										False alarm.
“ 4	9:53 p.m.	Tel.	Wilbraham Road.					None		None		Careless with gasoline.
“ 7	11:20 a.m.	still	64 Fisk Ave.					None		None		Chimney fire.
“ 8	4:55 a.m.	Ther.	Birnie Ave.									False alarm.
“ 8	2:40 p.m.	still	Indian Orchard.									Trolley car.
“ 11	3:12 p.m.	Tel.	19-21 Lyman St.	Brick			Garage	Slight		Slight		Careless with match.
“ 11	8:27 p.m.	still	258 Worth'gton St									Rubbish.
“ 15	2:30 p.m.	still	46 Locust St.									Needless alarm.
“ 15	7:30 p.m.	Tel.	West St.									Dumping grounds.
“ 17	12:20 a.m.	Tel.	Armory St.									Dumping grounds.
“ 18	4:44 a.m.	612	South St.	Frame	F. J. Richards	F. J. Richards	Cot. W. Mill	Slight		84 00	$12,000	Friction.
“ 19	12:53 p.m.	still	472 Union St.					None		None		Chimney fire.
“ 19	1:00 p.m.	still	Indian Orchard	“	C. A. Ludden	W. J. Chisholm	Dwelling	None		6 00	500	Oil stove.
“ 24	5:11 p.m.	78	367½ Chestnut St.	Brick	H. L. Handy	B. McLaughlin	Dwelling	Slight		10 00	None	Children and matches.
“ 29	9:30 a.m.	Tel.	14 Hawley St.					None		None		Gas leak.
“ 30	1:45 p.m.	Tel.	85 Monroe St.	Frame	J. W. McClintock	A. Hebert	Dwelling	50 00	900	25 00	None	Unknown.
Aug. 3	1:59 p.m.	462	19 Orchard St.					None		None		Oil stove.
“ 4	3:05 p.m.	still	66 Cedar St.	“	L. C. Scheuing		Dwelling	25 00	2,100	None		Lightning.
“ 5	1:29 a.m.	42	43 Franklin St.	Brick	M. Riner	C. Malley	Dwelling	60 00	8,000	10 00	None	Smoking in bed.
“ 8	5:55 p.m.	still	456 Worth'gton St					None		None		Gasoline stove.
“ 8	10:00 p.m.	Tel.	Foot Water St.	Locomotive.								Explosion headlight.
“ 11	8:02 p.m.	612	South St.	Frame	G. N. Vaughn	G. N. Vaughn	Barn	None		Slight		Overturned lantern.
“ 13	3:50 a.m.	971	140 Eastern Ave.	“	B. F. Steele	Laurier and Pero	Grocer	203 00	300	365 00	1,100	Oil lamp.
“ 14	2:50 p.m.	still	928 Main St.	“	W. G. Baker	Unoccupied	Shed	10 00	None			Children and matches.
“ 14	3:09 p.m.	Tel.	Water St.	Brick	Sp'gfl'd Gas Co.			None		None		Tar leak in pipe.
“ 15	10:45 5.m.	still	54 Worcester St.	Frame				None		None		Careless with oil.
“ 15	7:05 p.m.	Tel.	211 Main St.					None		None		Chimney fire.
“ 16	9:02 a.m.	still	789 State St					None		None		Boys and matches.
“ 16	10:58 a.m.	Tel.	1122 State St.									Needless alarm.
“ 16	12:55 p.m.	Tel.	368 Liberty St.					None		None		Chimney fire.
“ 17	8:01 a.m.	5	303 Main St.	Brick	F. Worthy	Worthy Hotel	Hotel	None		42 35	37,000	Grease in ventilator.
“ 17	3:21 p.m.	93	66 College Ave.	Frame	G. F. Stearns	G. F. Stearns	Barn	160 00	1,950	None		Unknown.
“ 18	11:10 a.m.	27	Indian Orchard	“	C. Parker	L. Labelle	Dwelling	25 00	1,500	15 00	None	Overturned oil lamp.
“ 20	10:46 p.m.	14	477 Worth'gton St	“	J. Geraghty	G. M. Edson	Dwelling	Slight		100 00	None	Oil lamp.

DETAILED STATEMENT OF FIRES—Continued.

Date.		Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
									Loss on	Ins. on	Loss on	Ins. on	
Aug.	21	6:26 p.m.	21	139 State St.......	Brick.......		H. Foot & Co.......	Store.........	None		Slight		Arc lamp and awning.
“	22	2:02 p.m.	37	93 Margaret St....	Frame......		H. Fradet..........	Dwelling.....	None		Slight		Children and matches.
“	22	3:38 p.m.	38	37 Lombard St....	“	J. Sullivan...	J. Sullivan........	Dwelling.....	5 00	500	5 00	None	Gasoline stove.
“	24	12:38 p.m.	421	86 Essex St........					None		None		Fat boiled over.
“	24	4:45 p.m.	981										False alarm.
“	25	10:55 p.m.	36	Indian Orchard...					None		None		Chimney fire.
“	25	7:25 p m.	483	Wason Ave........	“	Wason Mfg. Co...	Wason Mfg. Co.....	Mfg	340 00	40,000	None		Spark from forge.
“	25	9:16 p.m.	still	278 North Main St									Needless alarm.
“	28	7:32 a.m.	Tel.	38 Bradford.......					None		None		Chimney fire.
“	29	9:05 p.m.	still	67 Ashley St.......					None		None		Chimney fire.
“	30	4:01 a.m.	still	100 Court St.......	“	C. Phillips........	E. Cottelier........	Grocer........	400 00	2,500	96 00	300	Unknown.
Sept.	1	1:45 p.m.	still	21 Cedar St.......					None		None		Hot ashes.
“	1	6:52 p.m.	59	340 St. James Ave					None		None		Gas leak.
“	4	12:09 p.m.	561	208 Florida St....	Frame......	J. E. Corson......	J. E. Corson........	Dwelling.....	280 00	5,500	None		Unknown.
“	4	9:20 p.m.	Tel.	West St..........									Dumping grounds.
“	8	5:37 p.m.	Tel.	Wason Ave.........	Brick	Baush M. T. Co...	Baush M. T. Co.....		Slight		None		Spark from chimney.
“	9	2:00 p.m.	still	85 Lebanon St....					None		None		Chimney fire.
“	13	12:27 a.m.	796	Beviere St........	Frame......	E. C. Vincent....	W. C. Agon.........	Dwelling.....	1,050 00	1,800	365 55	700	Unknown.
“	15	3:13 p.m.	43	15 John St........	“	A. W. Runnells...	A. W. Runnells.....	Barn..........	300 00	300	300 00	300	Unknown.
				15 “ “	“	A. W. Runnells...	A. W. Runnells.....	Dwelling.....	600 00	1,200	265 50	1,000	
				17 “ “	“	Swedish Mission.	Swedish Mission ...	Church.	1,466 00	5,000	500 00	1,000	
				38 Bradford St...	“	C. H. Howard.....	C. H. Howard.......	Barn..........	38 00	900	None		
				38 “ “	“	C. H. Howard.....	C. H. Howard.......	Dwelling.....	7 00	1,800	None		
“	15	7:17 p.m.	Tel.	154 Cambridge St.					None		None		Chimney fire.
“	16	6:48 p.m.	Tel.	Footof PynchonSt	Freight car.				None		None		Spark from Locomotive.
“	18	3:42 p.m.	59	St. James Ave....	Frame......	P. O'Connor......	A. Fourni..........	Dwelling.....	800 00	600	700 00	300	Unknown.
“	19	11:40 a m.	still	Indian Orchard...									Trolley car.
“	19	4:48 p.m.	Tel.	Atwater Place....					None		None		Chimney fire.
“	19	7:22 p.m.	Tel.	Murray Hill Ave..									Dumping grounds.
“	20	10:25 p.m.	Tel.	407 Clainfield St..	“	P. Knowlton......		Shed	25 00	None	None		Lightning.
“	22	1:45 p.m.	78	175 Patton St.....					None		None		Unknown.
“	22	10:20 p.m.	Tel.	56 Taylor St......	Brick	Steam Power Co..	F. Demers...........	Paints, etc....	Slight		23 40	600	Unknown.
“	23	4:10 p.m.	Tel.	564 Main St.......	“		J. F. Carman........	Grocer........	Slight		None		Careless smoking.
“	24	4:08 p.m.	74	495 Chestnut St...	Frame......	City..............	J. L. Dame..........	Bakery........	Slight		60 00	500	Unknown.
“	24	9:12 p.m.	794	Armory St......	“	Sp'gf'ld F. Co.....	Sp'gf'ld Foundry Co	Foundry.......	6,500 00	6,500			Unknown.
					Freight car.	N.Y.N.H.&H.R.R.			200 00	None			
“	26	6:10 p.m.	Tel.	Springfield St.....	Frame......			Barn	None		None		Boys and matches.
“	27	4:59 p.m.	2	17 Hampden St...	Brick	W. Patton......	H. A. Quimby & Co.	Storage.......	349 00	None	1,000 00	3,000	Unknown.
							A. G. Franklin......	Cigar Mf'g....			90 49	1,000	
							T. Shea.............	Mason S'plies.			160 00	1,000	
							M. J. Hannon.......	Storage........			30 00	100	
“	28	5:05 p.m.	still	798 State St.......					None		None		Rubbish.
“	29	12:33 a.m.	Tel.	482 Main St.......									Needless alarm.

DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Oct. 1	6:44 p.m.	13	State St									Trolley car.
“ 1	8:13 p.m.	21	137 State St									Needless alarm.
“ 2	8:10 a.m.	Tel.	19 Crossett Ave	Frame	D. B. Wesson est.	A. White	Dwelling	Slight		$25 00	None	Unknown.
“ 3	1:50 p.m.	still	12 Bond St									Rubbish.
“ 4	6:35 a.m.	Ther.	109 Mill St	“	Sp'gf'ld Waste Co	Sp'gf'ld Waste Co.	Mfg	None		Slight		Overheated dry room.
“ 4	10:15 a.m.	Ther.	109 Mill St	“	Sp'gf'ld Waste Co	Sp'gf'ld Waste Co.	Mfg	None		Slight		Unknown.
“ 5	12:45 p.m.	69										Needless alarm.
“ 6	5:07 a.m.	Tel.	281 No. Main St									Gas., carel'ss with lant'n
“ 9	2:27 p.m.	43	Indian Orchard	Frame	D. Trombly	D. Trombly	Dwelling	$567 50	$1,800	50 00	None	Unknown.
“ 9	3:00 p.m.	still	Indian Orchard					None		None		Spark from burn'g bldg.
“ 10	5:11 p.m.	41	28 Sharon St					None		None		Children and matches.
“ 11	1:55 p.m.	still	424 Worth'gton St	Frame	F. E. Smith.	Whelden & Gallup.	Store	5 00	10,000	7 75	$1,000	Gasoline stove.
“ 11	4:33 p.m.	Ther.	43 Lyman St									False alarm.
“ 11	11:28 p.m.	Tel.	25 Lenox St	“	M. Ehrlich	M. Ehrlich	Dwelling	185 50	3,000	5 00	2,100	Overheated hot air flue.
“ 12	2:23 p.m.	83	315 Walnut St.					None		None		Stove rag.
“ 12	2:55 p.m.	Tel.	20 Mattoon St									Needless alarm.
“ 12	4:03 p.m.	462	112 Lowell St	“	A. W. Rowley	P. F. Young	Dwelling	85 00	2,000	230 00	800	Unknown.
“ 13	7:45 p.m.	still	7 Ashley St					None		None		Oil heater.
“ 14	7:30 a.m.	still	17 W'brah'm Road	Brick				None		None		Overheated hot air flue.
“ 14	2:16 p.m.	Tel.	2 Ridgewood Ter	Frame	G. M. Holbrook	G. M. Holbrook	Dwelling	10 00	5,000	None		Stoppage in smoke flue.
“ 14	4:18 p.m.	971	82 Colton St	“			Dwelling	None		Slight		Careless with matches.
“ 16	9:14 p.m.	36	90 Howard St					None		None		Oil heater.
“ 19	2:28 a.m.	421	Vine St	“	C. J. Richards	J. C. Burke	Barn	50 00	300	25 00	1,200	Hot coals.
“ 19	7:35 p.m.	still	Indian Orchard									Trolley car.
“ 21	4:00 p.m.	Tel.	111½ High St	“	F. C. Parker		Dwelling	14 58	7,000	None		Defective fireplace.
“ 22	11:58 a.m.	78	340 Chestnut St	Brick	J. R. Driscoll	E. McNulty	Store	6 00	15,000	148 50	1,000	Unknown.
“ 22	12:25 p.m.	Ther.	135 Dwight st									False alarm.
“ 23	9:28 p.m.	Tel.	103 Mill St									Needless alarm.
“ 24	10:10 a.m.	still	163 Lyman St									Rubbish.
“ 25	9:31 a.m.	4	Taylor St									Gasoline.
“ 26	8:05 p.m.	Tel.	Westminster St									Leaves.
“ 28	1:20 p.m.	Tel.	Hickory St.									Brush fire.
“ 29	7:25 a.m.	Tel.	Hickory St									Grass fire.
“ 29	10:20 a.m.	Tel.	53 Bridge St					None		None		Spark from chimney.
“ 29	7:21 p.m.	964	15 Prince St	Frame	J. G. Bowman	J. G. Bowman	Dwelling	142 00	1,800	35 00		Oil heater overturned.
“ 31	9:25 a.m.	483	Wason Ave	Brick	Wason Mfg. Co	Wason Mfg. Co.	Mfg	Slight		None	500	Spark from boiler.
“ 31	7:35 p.m.	still	Birnie Ave	Frame	W. H. Dexter		Out house	No value				Boys.
Nov. 2	6:45 a.m.	Ther.	Hillman St									False alarm.
“ 2	12:55 p.m.	Tel.	552 Worth'gt'n St.									False alarm.
“ 2	2:09 p.m.	Tel.	Glenwood					None		None		Forest fire.
“ 2	6:00 p.m.	Tel.	Orleans St									Spark from wheel.
“ 2	8:32 p.m.	Tel.	Lyman St									Old rail ties.
“ 3	8:35 a.m.	still	Hooker St									Tar barrels.

DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Nov. 3	9:38 a.m.	Tel.	Pineywoods Ave.									Grass fire.
" 3	9:58 a.m.	Tel.	65 Vernon St.					$8 00	$3,500	None		Heater near woodwork.
" 3	11:18 a.m.	Tel.	Cypress St.	Lumber yd.				Slight				Child and match.
" 3	11:25 a.m.	27	Indian Orchard	Frame	J. J. Griffin		Store	15 00	1,200	None		Boys and matches.
" 3	2:35 p.m.	still	131 Taylor St.	"			Dwelling	Slight		None		Foul fireplace.
" 3	3:20 p.m.	Tel.	Allen St.									Brush fire.
" 3	4:05 p.m.	still	Cherrelyn Ave									Brush fire.
" 3	5:00 p.m.	Tel.	No. Main St.									Kettle of tar.
" 3	9:15 p.m.	Tel.	Bridge St.	Brick			Garage	None		None		Gasoline.
" 4	9:31 a.m.	98	106 Green St.	Frame	R. Risser & O. Warriner	R. Risser & O. Warriner	Dwelling.	156 00	1,800	$25 00	None	Unknown.
" 4	11:13 a.m.	73	22 Brookline Ave.	"	T. Conlin	J. S. Barron	Dwelling.	35 00	4,000	119 50	$1,000	Unknown.
" 4	3:05 p.m.	Tel.	Cherrelyn Ave.									Brush fire.
" 5	5:37 p.m.	Tel.	90 Franklin St.					None		None		Chimney fire.
" 5	5:52 p.m.	79	Armory St.									Brush fire.
" 6	3:30 p.m.	Tel.	Arch St.									Grass fire.
" 6	11:59 p.m.	Tel.	100 Liberty St.	Brick	Spfd. Foundry Co.	Spfd. Foundry Co.	Foundry	175 00	34,000	None		Unknown.
" 7	11:39 a.m.	Tel.	Broad St.	"	Barney & Berry			None		None		Gasoline.
" 9	1:30 a.m.	Ther.	390 Main St.									False alarm.
" 9	3:19 p.m.	21	529 Main St.					None		None		Rubbish.
" 9	4:21 p.m.	still	27 John St.	"	G. W. Allen	F. E. Blauvelt	Dwelling.	159 00	12,000	90 00	500	Spontaneous combustion.
" 10	2:15 a.m.	still	796 State St.					None		None		Box of rubbish.
" 11	5:53 a.m	42	105 Main St.	"	P. Morse	J. P. Gage	Dwelling.	230 00	17,000	50 00	None	Overturned oil lamp.
" 11	12:55 p.m.	971	56 Eastern Ave.	Frame	M. McNerny	M. McNerny	Dwelling	175 00	2,000	316 50	700	Unknown.
" 12	5:58 a.m.	573										False alarm.
" 12	1:07 p.m.	461										False alarm.
" 13	1:15 p.m.	6	Indian Orchard									False alarm.
" 13	1:25 p.m.	still	16 Bond St.									Rubbish.
" 14	4:33 p.m.	7	190 Liberty St.	"	Chapin estate	D. White	Dwelling	Slight		Slight		Unknown.
" 14	6:38 p.m.	971	Eastern Ave.	"			Store	None		None		Unknown.
" 15	6:03 p.m.	39										False alarm.
" 15	7:50 p.m.	43	Indian Orchard									False alarm.
" 16	3:00 p.m.	still	183 Chestnut St.	Brick	Carr & Mayo	M. Ryan	Dwelling	15 00	10,000	None		Unknown.
" 16	7:25 p.m.	Tel.	302 Maple St.									Needless alarm.
" 18	8:15 a.m.	36	6 Union St.					None		None		Oil lamp overturned.
" 18	11:14 a.m.	Tel.	Fort St.									Needless alarm.
" 20	11:05 p.m.	Tel.	Boston Road	Frame	G. Soland	Unoccupied	Ice House	100 00	None			Unknown.
" 21	4:09 p.m.	612	South St.	Brick	F. J. Richards	F. J. Richards	Mfg.	None		Slight		Friction.
" 21	5:15 p.m.	still	39 Main St.	"	A. H. Goetting	L. E. Hall	Appartments.	28 00	35,000	28 75	800	Children and matches.
" 21	10:44 p.m.	971										False alarm.
" 22	1:30 p.m.	still	380 Main St.	Brick				None		None		Plumber's furnace.
" 23	2:20 p.m.	Ther.	837 State St.									False alarm.
" 23	6:23 p.m.	still	No. Chestnut St.									Rubbish.
" 24	4:05 a.m.	Tel.	East Longmeadow									Out of city.

DETAILED STATEMENT OF FIRES—Concluded.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Nov. 24	4:05 p.m.	still	Cherrylyn St......									Grass fire.
" 24	5:55 p.m.	Tel.	307 Main St........	Brick.......	J. Abbe...........			$50 00	$120,000	None		Fireworks.
" 25	5:40 a.m.	still	339 Worth'gton St					None		None		Spark from stove.
" 26	12:30 p.m.	36	Indian Orchard...	Frame......	J. P. Dowd.......	J. P. Dowd..........	Dwelling.....	25 00	1,000	None		Defective chimney.
" 27	11:31 p.m.	24	3 Pynchon St......	Brick... ...			Restaurant....	None		$ 6 00	$3,000	Falling oil lamp.
" 28	12:10 p.m.	Tel.	Armory St.........	Freight car.				Slight				Overheated stovepipe.
" 29	9:10 p.m.	Tel.	Bridge St..... ..	Toll bridge.				Slight				Cigar or cigarette end.
" 30	7:18 a.m.	78	113 Franklin St....	Frame......		J. Benway..........	Dwelling......	None		20 00	None	Spark from stove.
" 30	3:24 p.m.	182	Orleans St.........	"	Nat. Papeterie Co.			Slight		None		Spark from wheel.
" 30	11:54 p.m.	13	State St...........									Trolley car.

NUMBER OF ALARMS

EACH COMPANY ANSWERED.

Engine	No. 1,	93
"	" 2,	78
"	" 4,	60
"	" 6,	62
"	" 8,	52
"	" 10,	25
Hose	" 3,	104
"	" 5,	33
"	" 7,	66
"	" 9,	85
"	" 11,	26
"	" 13,	15
Truck	" 1,	75
"	" 2,	46
"	" 3,	70
"	" 4,	49
Chemical	A,	39
"	B,	75
Auxiliary	Squad A,	39

CAUSES OF FIRES OR ALARMS.

Arc lamp,	1
Automobile,	4
Awning and arc lamp,	1
Boys and matches,	4
Broken kettle of nitre,	1
Brush, forest, and grass fires,	33
Careless with candle,	1
Careless with gasoline,	6

Careless with lantern,	2
Careless with matches,	8
Careless with oil,	2
Careless with stove cloth,	2
Careless smoking,	6
Chicken brooder,	1
Child playing with firearms,	1
Children playing with fire,	1
Children and matches,	11
Chimney fires,	33
Cigar or cigarette end,	2
Clothing hanging over lamp,	1
Defective chimney,	3
Defective fireplace,	3
Defective flue,	2
Defective stovepipe,	1
Dumping grounds,	5
Electric wires,	1
Falling oil lamp,	2
Falling stovepipe,	1
False alarms,	26
Fat boiled over,	1
Fireworks,	2
Foul fireplace,	1
Friction,	2
Gas leak,	2
Gas stove and tubing,	1
Gasoline,	2
Gasoline and automobile,	1
Gasoline stove,	4
Gasoline tank,	1
Grease in ventilator flue,	1
Grease on stove,	1
Halloween pranks,	1
Heat from boiler,	1
Heat from furnace,	1
Heat from gas stove,	1
Heat from oven,	1
Heater near woodwork,	1
Hot ashes,	2

Hot coals,	1
Hot flatiron,	1
Incendiary,	1
Incubator,	1
Kettle of fat boiled over,	2
Kettle of tar,	1
Lantern overturned,	1
Leaves,	1
Lightning,	4
Locomotive headlight explosion,	1
Mice and matches,	1
Needless alarm,	32
Oil heater,	3
Oil heater overturned,	2
Oil lamp,	3
Oil lamp overturned,	5
Oil stove,	6
Out of city,	1
Overheated ash chute,	1
Overheated chimney,	1
Overheated dry room,	2
Overheated furnace,	2
Overheated hot air flue,	4
Overheated stove,	2
Overheated stovepipe,	2
Overturned kettle of lard,	1
Parlor match,	1
Peanut roaster lamp,	1
Plumber's furnace,	2
Plumber's torch,	1
Refuse shoddy,	1
Rekindling of former fire,	1
Rubbish,	15
Rubbish in ash chute,	1
Smoking in bed,	2
Spark from boiler,	1
Spark from burning building,	1
Spark from chimney,	3
Spark from forge,	2
Spark from locomotive,	2

Spark from stove,	1
Spark from wheel,	1
Spontaneous combustion,	4
Tar leak in pipes,	1
Trolley car,	16
Unknown,	71
Vapor from gasoline,	1
	403

COMPARATIVE STATEMENT

OF LOSSES BY FIRE AND ALARMS OF FIRE SINCE 1870.

From Dec. 1st, 1870, to Dec. 1st, 1871,	$199,317	00	21
“ “ “ 1871, “ “ “ 1872,	106,425	00	22
“ “ “ 1872, “ “ “ 1873,	191,107	00	48
“ “ “ 1873, “ “ “ 1874,	285,822	02	38
“ “ “ 1874, “ “ “ 1875,	476,961	45	57
“ “ “ 1875, “ “ “ 1876,	120,824	00	53
“ “ “ 1876, “ “ “ 1877,	74,071	00	32
“ “ “ 1877, “ “ “ 1878,	49,552	00	39
“ “ “ 1878, “ “ “ 1879,	36,706	70	33
“ “ “ 1879, “ “ “ 1880,	8,611	35	27
“ “ “ 1880, “ “ “ 1881,	92,352	82	61
“ “ “ 1881, “ “ “ 1882,	60,232	06	73
“ “ “ 1882, “ “ “ 1883,	34,969	11	46
“ “ “ 1883, “ “ “ 1884,	30,755	34	54
“ “ “ 1884, “ “ “ 1885,	39,241	91	48
“ “ “ 1885, “ “ “ 1886,	33,584	00	61
“ “ “ 1886, “ “ “ 1887,	64,930	29	86
“ “ “ 1887, “ “ “ 1888,	177,577	19	79
“ “ “ 1888, “ “ “ 1889,	52,085	19	79
“ “ “ 1889, “ “ “ 1890,	33,864	99	92
“ “ “ 1890, “ “ “ 1891,	201,126	00	141
“ “ “ 1891, “ “ “ 1892,	125,243	36	140
“ “ “ 1892, “ “ “ 1893,	397,531	03	147
“ “ “ 1893, “ “ “ 1894,	57,732	41	125
“ “ “ 1894, “ “ “ 1895,	43,311	74	128
“ “ “ 1895, “ “ “ 1896,	57,206	60	141
“ “ “ 1896, “ “ “ 1897,	55,460	89	157
“ “ “ 1897, “ “ “ 1898,	235,981	79	171
“ “ “ 1898, “ “ “ 1899,	94,694	02	213
“ “ “ 1899, “ “ “ 1900,	62,157	70	222
“ “ “ 1900, “ “ “ 1901,	96,409	25	236
“ “ “ 1901, “ “ “ 1902,	149,931	33	248
“ “ “ 1902, “ “ “ 1903,	30,316	69	311
“ “ “ 1903, “ “ “ 1904,	68,332	86	385
“ “ “ 1904, “ “ “ 1905,	208,451	58	424
“ “ “ 1905, “ “ “ 1906,	105,771	28	403

LOCATION OF RESERVOIRS AND GATES TO THE SAME.

See page 24, Chief Engineer's Report, 1897.

FIRE RESERVOIRS CONNECTED WITH THE WORKS

Bridge street, at Main.
Bridge street, at Water.
City Hospital Grounds.
Elm street, front of First Church.
Hampden street, at Main.
Harrison avenue, at Main.
Howard street, at Main.
Lyman street, at Dwight.
Main street, at Court square.
Main street, at Ferry.
Main street, at Franklin.
Main street, at Patton.
Main street, at State.
Maple street, at Central.
Pynchon street, near Water.
State street, at Elliott.
Walnut street, at Hancock.
Water street, opposite Lombard.

1. Bridge Street, Corner Main Street.

Gate cover, ten feet six inches south of north curbstone, four feet six inches east of west line of building on northeast corner of Bridge street, Reservoir door, five feet six inches east of west line of building on northeast corner of Bridge street, twenty-four feet four inches south of north curbstone on Bridge street; will supply two steamers.

2. Bridge Street, Corner of Water Street.

Gate cover, twenty-six feet south of south line of building on northeast corner of Water and Bridge streets, eight feet west of west line of building on northeast corner of Water and Bridge streets. Reservoir door, twenty-three feet nine inches west of west line of building on northeast corner of Water and Bridge streets, thirty-two feet eleven inches south of south line of same building; will supply two steamers.

3. CITY HOSPITAL GROUNDS.

Gate cover, nineteen feet six inches west of west track of street railway, thirteen feet three inches south of south line of building, No. 760 Chestnut street. Reservoir door, thirty-two feet east of east track of street railway, nine feet north of north curbstone of entrance to hospital grounds from Chestnut street.

4. ELM STREET, FRONT OF FIRST CHURCH.

Gate cover, fifty-seven feet six inches west of west line of theater building, twenty-seven feet six inches north of south curbstone on Elm street. Reservoir door, fifty-five feet six inches west of west line of theater building, thirty-four feet six inches north of south curbstone on Elm street; will supply two steamers.

5. HAMPDEN STREET, CORNER MAIN STREET.

Gate cover, eight feet six inches west of west track of street railway on Main street, thirty-three feet six inches north of north line of building on south corner of Hampden street; will supply two steamers.

6. HARRISON AVENUE, CORNER MAIN STREET.

Gate cover, eleven feet west of west line of Republican building, twenty-one feet south of south line of same building. Reservoir door, eighteen feet south of south line, seven feet ten inches east of west line of Republican building, or eighteen feet ten inches east of gate; will supply two steamers.

7. HOWARD STREET, CORNER MAIN STREET.

Gate cover, twenty-three feet north of north line of building south corner of Howard and Main streets, fifteen feet six inches west of east line, of same building. Reservoir door, fourteen feet north of north line, nine feet eight inches west of east line of building south corner of Howard and Main streets; will supply one steamer.

8. LYMAN STREET, CORNER DWIGHT STREET.

Gate cover, ten feet six inches south, six feet east of reservoir door; will supply three steamers.

9. MAIN STREET, FRONT OF COURT SQUARE.

Gate cover, twenty-six feet seven inches south of center of fountain, fourteen inches inside of curbstone. Reservoir door, fourteen feet south of center of fountain, two feet seven inches inside of west curbstone; will supply three steamers.

10. MAIN STREET, CORNER FERRY STREET.

Gate cover, nine feet seven inches south of north curbstone of Ferry street, nine feet nine inches west of west line of building south corner of Ferry street. Reservoir door, nineteen feet eight inches north of north line of building south corner of Ferry street, and center of east track of street railway; will supply three steamers.

11. MAIN STREET, CORNER FRANKLIN STREET.

Gate cover, fifteen feet nine inches west of east curbstone, fifteen feet nine inches north of north line of building corner of Franklin street. Reservoir door, thirty-one feet six inches west of east curbstone of Main street, nineteen feet north of north line of building corner Franklin street; will supply two steamers.

12. MAIN STREET, OPPOSITE PATTON STREET.

Gate cover, six feet north of north line of building southeast corner of Patton street, six feet west of west curbstone of Main street. Reservoir door, thirteen feet west of west curbstone of Main street, or seven feet west of gate; will supply three steamers.

13. MAIN STREET, CORNER STATE STREET.

Gate cover, twenty-three feet north of north line of building southwest corner of State street, thirty feet six inches east of east line of same building. Reservoir door, forty-eight feet nine inches east of east line, eighteen feet six inches north of north line of building southwest corner of State street; will supply three steamers.

14. MAPLE STREET, CORNER CENTRAL STREET.

Gate cover, twenty-three feet eight inches east of east line of building northwest corner of Central and Maple streets, twenty-four feet three inches south of south line of same building. Reservoir door, ninety-four feet nine inches south of south line of building northwest corner of Central and Maple streets, twenty-eight feet east of west curbstone of Central street, or eleven feet south of north line of building No. 196 southwest corner of Central and Maple streets.

15. PYNCHON STREET, NEAR WATER STREET.

Gate cover, eight feet eight inches south of north curbstone, twenty feet five inches west of west line of building, No. 67 Pynchon street. Reservoir door, four feet four inches north of south curbstone, twenty-six feet seven inches west of west line of building, No. 67 Pynchon street; will supply one steamer.

16. STATE STREET, CORNER ELLIOTT STREET.

Gate cover, ten feet six inches north of south curbstone, three feet east of east line of building, No. 273 State street; will supply one steamer.

17. WALNUT STREET, CORNER HANCOCK STREET.

Gate cover, twenty-five feet two inches east of west curbstone of Walnut street, two feet east of west line of building, No. 315 Walnut street, twelve feet nine inches south of south line of Alden street.

18. WATER STREET, CORNER LOMBARD STREET.

Gate cover, seven feet four inches south of north curbstone of Lombard street, seven feet six inches west of east curbstone of Water street. Reservoir door, fifty-eight feet eight inches north of north curbstone of Lombard street, four feet west of east curbstone of Water street; will supply three steamers.

The following are surface water reservoirs:—

Corner Ashley and Cedar streets.
Corner Bay and Florida streets.
Corner Central street and Central street avenue.

Elliott street, between State and Salem streets.
Corner Federal and Grant streets.
In Federal square.
Corner Florence and Spruce streets.
Corner Hancock and Union streets.
Corner Maple and High streets.
Corner Maple and Mulberry streets.
Corner Maple and Union streets.
Corner Oak and Union streets.
Corner Pine and Maple streets.
Corner Spring and Frost streets.
State street, opposite residence of G. W. Russell.
Two on State street, opposite Federal square.
Corner State and Market streets.
Corner State and Chestnut streets.
Corner State and Maple streets.
Union street, east of Mulberry.
Two on State street, opposite old high school.
Corner State and Willow streets.
Two corner State and Dwight streets.
Corner State and Spring streets.
State street, opposite Olivet church.
Union street, opposite house No. 384.
Corner Walnut and James streets.
Corner Walnut and Oak streets.
Corner Worthington and Alert streets.
Corner Worthington and Summer streets.

FIRE ALARM TELEGRAPH.

Location of Signal Boxes.

Keys on all Boxes.

Box 2.—Main, opposite Taylor.
Box 3.—Main, opposite Lyman.
Box 4.—Taylor, opposite Power avenue.
Box 5.—Main and Worthington.
Box 6.—Main and Bridge.
Box 7.—Liberty and Chestnut.
Box 8.—Taylor and Dwight.
Box 9.—Lyman and Chestnut.
Box 12.—Union and School.
Box 13.—State and Spring.
Box 14.—Spring and Worthington.
Box 142.—Pearl and Byers.
Box 15.—Salem and Mattoon.
Box 152.—Chestnut, opposite Bridge.
Box 16.—Worthington and Kibbe avenue.
Box 17.—State and Walnut.
Box 18.—State and Oak.
Box 19.—Union and Mulberry.
Box 21.—State and Main.
Box 23.—Sanford and Market.
Box 231.—Main and Elm.
Box 24.—Main and Pynchon.
Box 25.—Dwight and Harrison avenue.
Box 26.—Main, opposite Hillman.
Box 27.—Water and Fort.
Box 271.—Water and Bridge.
Box 28.—Water and Vernon.
Box 29.—Water and Elm.
Box 31.—State and Chestnut.
Box 32.—Maple, opposite Avon place.
Box 324.—Maple, opposite Park.
Box 34.—Main, opposite Central.

Box 341.—Main and Norwood.
Box 342.—Main and York.
Box 35.—Main and Union.
Box 36.—Water and Howard.
Box 37.—Water and Margaret.
Box 38.—Water and Lombard.
Box 39.—Broad and Hanover.
Box 41.—Main and Cypress.
Box 42.—Main and Emery.
Box 421.—Main and Holyoke.
Box 43.—Main and Sargeant.
Box 45.—Fulton and Emery.
Box 46.—Fulton and Seventh.
Box 461.—Fulton and Plymouth.
Box 462.—Plainfield, opposite Washburn.
Box 463.—Plainfield, near Clayton.
Box 465.—Old Plainfield street schoolhouse.
Box 47.—Main, opposite Osgood.
Box 48.—Hooker street engine house.
Box 49.—Main and Wason avenue.
Box 491.—Main and Alfred.
Box 493.—Fisk and Demond avenues.
Box 51.—Bay, near Sherman.
Box 512.—Bay, opposite Marion.
Box 513.—Bay, near Westminster.
Box 52.—St. James avenue, opposite Thompson park.
Box 53.—St. James avenue and Florida.
Box 54.—Worthington and Armory.
Box 56.—Worthington and Thompson.
Box 561.—Worthington and Bowdoin.
Box 57.—Winchester park.
Box 573.—State and Pleasant.
Box 574.—State, opposite Hancock.
Box 58.—Princeton and Amherst.
Box 59.—St. James avenue, near Dorchester.
Box 61.—Mill and Locust.
Box 612.—South and Boulevard.
Box 613.—Fort Pleasant avenue, near Chase avenue.
Box 62.—Belmont avenue, opposite Keith.
Box 621.—Belmont avenue, near Garfield.

Box 623.—Belmont and Beaumont avenues.
Box 63.—Sumner avenue and Long Hill.
Box 631.—Long Hill street and Cherryvale avenue.
Box 64.—Sumner avenue and Randolph.
Box 641.—Sumner avenue, opposite Continental avenue.
Box 65.—Garfield and Churchill.
Box 67.—Belmont and Sumner avenues.
Box 671.—White and Sumner avenue.
Box 68.—White street chapel.
Box 681.—Allen and Orange.
Box 682.—Allen, east of N. E. R. R. tracks.
Box 69.—Allen and White.
Box 71.—Chestnut and Springfield.
Box 712.—Springfield, north of Chestnut.
Box 713.—Hamburg and Farnsworth.
Box 714.—Atwater Glen.
Box 72.—Chestnut and Alexander.
Box 73.—North and Jefferson avenue.
Box 74.—Chestnut and Prospect.
Box 741.—Carew and Armory.
Box 742.—Liberty and Sherman road.
Box 75.—North and Ringgold.
Box 76.—Chestnut and Carew.
Box 78.—Chestnut, opposite Greenwood.
Box 79.—Liberty and Cass.
Box 791.—Liberty, opposite Heywood avenue.
Box 794.—Liberty and Armory.
Box 795.—Liberty and Grover.
Box 796.—Springfield and Armory.
Box 81.—Walnut and Oak.
Box 82.—Walnut and Cedar.
Box 83.—Walnut and Hancock.
Box 84.—Lincoln Hall.
Box 85.—Central and Spruce.
Box 86.—Central and Pine.
Box 87.—Maple and Pine.
Box 89.—Maple and Mill.
Box 91.—Cambridge and Burr.
Box 92.—Wilbraham road and Homer.
Box 921.—State, near International College.

Box 923.—Wilbraham road and Colonial avenue.
Box 93.—State and Reed.
Box 934.—State and Benton.
Box 94.—Wilbraham road and Rutland avenue.
Box 95.—Wilbraham avenue and Beverly.
Box 96.—Hancock and Quincy.
Box 961.—Hancock and King.
Box 962.—Stebbins and Union.
Box 964.—Lebanon and Prince.
Box 97.—Pendleton and Eastern avenues.
Box 971.—Eastern avenue and Union.
Box 98.—Alden and Eastern avenue.
Box 981.—Alden and Hickory.

PRIVATE BOXES.

To be Pulled only for Fire on Premises.

Box 123.—Smith & Wesson.
Box 125.—Fisk & Walker Mfg. Co.
Box 135.—United States Armory.
Box 182.—National Papeterie Co.
Box 212.—Court Square Hotel.
Box 213.—Tapley building.
Box 241.—Gilmore Opera House.
Box 273.—Homestead Publishing Co.
Box 274.—Springfield Brewing Co.
Box 291.—Springfield Gas Co.
Box 312.—City Library.
Box 362.—Newell Bros. Mfg. Co.
Box 364.—Electric Light Co.
Box 382.—Street Railway Power House.
Box 413.—Cooley Hotel.
Box 423.—Street Railway Office.
Box 481.—Birnie Paper Co.
Box 482.—Holyoke Card and Paper Co.
Box 483.—Wason Mfg. Co.
Box 485.—Stebbins Mfg. Co.
Box 492.—N. E. Russell's shop.
Box 562.—Standard Oil Co.
Box 572.—Potter's Planing Mill.

Box 732.—Springfield Hospital.
Box 762.—Sacred Heart Church.
Box 792.—Cheney Bigelow Wire Works.
Box 793.—Taber Prang Art Co.
Box 841.—Water Shops, U. S. A.
Box 931.—City Almshouse.
Box 932.—Highland Brewing Co.

One Blow—Fire out or under control.
Ten Blows—General alarm.
Fifteen Blows will be sounded five times for Militia call.

School Signal—Two blows five times, 8.15 a. m., no morning session.
Two blows five times, 11.45 a. m., no afternoon session.
Two blows five times, 7.30 a. m., no morning session high school.
Two blows five times, 12.15 p. m., no afternoon session high school.

ANNUAL REPORT OF THE FIRE ALARM TELEGRAPH.

To the Honorable Board of Fire Commissioners.

GENTLEMEN:—We have received 167 signals over the system during the year. Seven new boxes have been installed. Our underground system has been extended some. I would renew my recommendation of last year that each engine house be equipped with a telephone on the public exchange. About 120 of our signal boxes should have the contact points in them replaced with platinum, as the gases and moisture from the underground conduit corrode the present contact points and it is impossible to keep them in first class shape. I would recommend that another permanent lineman be furnished this department as we now employ a man most of the time.

Respectfully submitted,

S. L. WHEELER,

Superintendent.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

POLICE DEPARTMENT.

REPORT OF

THE POLICE COMMISSION.

To the City Council of Springfield.

In accordance with the provisions of the city ordinances the Board of Police Commissioners herewith submit to your Honorable Body the annual report of the Police Department for the year ending November 30, 1906.

The City Marshal's report to the Police Commission, which is attached hereto and made a part of this report, covers in detail the membership, appropriations and receipts, expenditures, arrests, convictions and penalties imposed, and all duties performed by the department.

Early in the year the City Council very wisely amended the ordinance so as to allow the force to be enlarged to seventy-five night and day watchmen, which was an increase of thirteen over the limit previously allowed by law. Your Commissioners have taken advantage of the liberty to the extent of appointing six additional night and day watchmen, which was all that could be paid for from the appropriation voted, so that the force as at present constituted consists of a City Marshal, Assistant City Marshal, Captain, Lieutenant, four Sergeants, two Inspectors and sixty-eight Night and Day Watchmen, and seventeen Reserve Police Officers. As at the present time it is necessary to keep constantly employed several of the Reserve Force, it is the opinion of your Commissioners that provisions should be made in granting the next appropriation for the appointment of the full number of officers allowed by the ordinances.

The Reserve Force lacks three of the number allowed by law, and it is the intention of this Board to shortly make appointments sufficient to fill these three vacancies.

During the year we have lost one night and day watchman by death; one night and day watchman by promotion; and one sergeant, Fred Hadd, upon his own petition, was retired on account of ill health and placed upon the pension list, being the first and only member of the department to take advantage of the pension act which the City Council adopted September 18, 1905.

The vacancies caused by death and promotion were filled by promotion from the Reserve Force. E. Frank Goodwin was appointed Sergeant October 25, 1906, to fill the vacancy caused by the retirement of Sergeant Fred Hadd.

The two years' experience which the department has had in running the automobile patrol wagon has demonstrated to us the value for police work of this method of conveyance, and we have recommended to the Finance Committe that the ambulance be similarly equipped (the Finance Committee has at the present time this matter under consideration) and trust that they may see fit to so report.

The detail at Indian Orchard has been increased during the year to three men, and a Sergeant has recently been stationed there, so that section of the city is fairly well taken care of at the present time.

It will be noticed by the Marshal's report that the amount of property reported stolen was $5,940.00, of which $4,995.18 was recovered, making the amount not recovered for the whole year less than $1,000.00, or, to be exact, $944.82, which is a very unusual record, demonstrating that whereas there naturally has been from time to time loss of property, by reason of larceny, burglary, etc., the city has been quite fortunate in having the net loss so very small.

The most serious crime that the department has had to deal with was the murder of Peter Beaupre, which occurred January 13, 1906, and up to the present time the murderer has not been apprehended.

The largest financial loss in a single case was the larceny by Charles H. Miller from the safe in the Adams Express Office at the Union Depot, of $1,900.00, on March 1, 1906. Miller was convicted of the offense, and the entire sum of money recovered, also three diamond rings previously stolen. The Adams Express Company officers paid this department the compliment of saying that this was the first case of any importance which they had intrusted entirely to local authorities.

During the year a new departure was instituted in the line of regulating the traffic in some congested parts of Main street. Acting under an order passed by the City Council, giving ample authority to control the movements of vehicles of all kinds, men have been placed at several points in Main street at certain hours, where most needed, to prevent blockades, see that the laws of the road are observed, and to assist people on foot to cross the street in safety, particularly the aged and infirm, and women and children. This policy has brought forth probably more commendation and favorable comment than any one act of the department.

We regret to report that the large majority of cases, where citizens complain verbally of misconduct or inefficiency on the part of members of the department, fail of proper action by your Commissioners on account of said citizens refusing to make written statements of their complaints, or personally appearing against the alleged offenders, which operates against the proper discipline in the department.

To His Honor, the Mayor, and the City Council, who have materially assisted the Commissioners by their loyal support at all times, we desire to express our thanks, and also to the City Marshal and other officers of the department for the cheerful and willing spirit manifested in the discharge of their respective duties.

FRANCKE W. DICKINSON,
JAS. D. NORTON,
E. M. EZEKIEL,
CHARLES W. BOSWORTH,
Board of Police Commissioners.

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

ANNUAL REPORT

OF

THE CITY MARSHAL.

SPRINGFIELD, MASS., November 30, 1906.

To the Honorable Board of Police Commissioners of the City of Springfield.

GENTLEMEN:—Pursuant to instructions, I have the honor to submit the following report, comprising a roster of the department, statement of receipts and expenditures, stolen and recovered property, tabulated statement of arrests, and miscellaneous duties of the force for the year ending November 30, 1906.

ROSTER OF POLICE DEPARTMENT.

BOARD OF POLICE COMMISSIONERS.

THE MAYOR, *Chairman, ex officio.*

JAMES D. NORTON, *Vice-Chairman,* E. M. EZEKIEL, CHARLES W. BOSWORTH, A. L. CHAPIN, *Commissioners' Clerk.*

OFFICERS OF THE DEPARTMENT.

		Name.	Residence.	Date of Appointment.	Nativity.	Age.
1.	**Marshal,**	**Geo. M. Stebbins,**	**41 Churchill st.,**	**June 24, 1900,**	**U. S.,**	**58**
2.	**Asst. Mar.,**	**Chas. M. Wright,**	**42 McKnight st.,**	**Mch. 3, 1869,**	**U. S.,**	**61**
3.	**Captain,**	**John J. O'Malley,**	**108 Cedar st.,**	**Jan. 26, 1874,**	**Ire.,**	**55**
4.	**Lieutenant,**	**Henry M. Perkins,**	**956 Worthington st.,**	**May 14, 1883,**	**U. S.,**	**54**
5.	**Sergeant,**	**David J. Manning,**	**3 Litchfield st.,**	**Jan. 12, 1879,**	**U. S.,**	**55**
6.	**Sergeant,**	**Geo. H. Norris,**	**52 Seventh st.,**	**Jan. 18, 1875,**	**U. S.,**	**56**
7.	**Sergeant,**	**John Hall,**	**694 Union st.,**	**Nov. 12, 1883,**	**Ire.,**	**49**
8.	**Sergeant,**	**E. Frank Goodwin,**	**1090 State st.,**	**Oct. 25, 1886,**	**U. S.,**	**59**
9.	**Inspector,**	**John H. Boyle,**	**22 Columbus ave.,**	**June 6, 1887,**	**U. S.,**	**44**
10.	**Inspector,**	**Wm. J. Quilty,**	**92 Acushnet ave.,**	**Mch. 7, 1887,**	**U. S.,**	**51**

NIGHT AND DAY WATCHMEN.

	Name.	Residence.	Date of Appointment.	Nativity.	Age.
1.	Patrick J. McCallin,	116 Butler st.,	Jan. 20, 1879,	Ire.,	58
2.	John H. McCormick,	55 Loring st.,	Sept. 4, 1882,	Ire.,	50
3.	Chas. A. Haynes,	61 Fremont st.,	March 5, 1883,	U. S.,	58
4.	George L. DeForest,	16 Clifford st.,	March 3, 1884,	U. S.,	52
5.	Paul J. O'Brien,	82 Lebanon st.,	May 23, 1884,	U. S.,	50
6.	Ernest Rosenberg,	33 Wendell ave.,	May 4, 1885,	Ger.,	61
7.	John H. Dunleavy,	99 Marble st.,	May 18, 1885,	U. S.,	50
8.	Thomas Ranney,	129 Greenwood st.,	June 7, 1885,	U. S.,	58
9.	William H. Sibley,	34 Clifton ave.,	Feb. 15, 1886,	U. S.,	54
10.	James Murtagh,	23 Ashley st.,	Oct. 25, 1886,	U. S.,	45
11.	Solon E. Frissell,	125 Catharine st.,	June 20, 1887,	U. S.,	59
12.	John St. Ledger,	83 Dawes st.,	July 12, 1888,	Ire.,	47
13.	Charles A. Wade,	12 McKnight st.,	April 8, 1889,	U. S.,	46
14.	Calvin W. Jennings,	40 Main st.,	Feb. 4, 1890,	U. S.,	65
15.	David H. Newcomb,	22 Wilbraham ave.,	June 16, 1891,	U. S.,	61
16.	Michael C. Quinlivan,	108 Northampton ave.,	Sept. 4, 1891,	Ire.,	44
17.	Michael R. Donovan,	Police building,	May 23, 1892,	Ire.,	68
18.	Charles H. O'Connell,	171 King st.,	May 23, 1892,	U. S.,	39
19.	Ward E. Maranville,	61 Cass st.,	May 23, 1892,	U. S.,	48
20.	James C. Burke,	96 Bancroft st.,	June 7, 1892,	U. S.,	39
21.	John J. McCarthy,	268 Carew st.,	Aug. 8, 1892,	U. S.,	40
22.	Edgar A. Kirk,	18 Terrence st.,	Jan. 22, 1894,	U. S.,	62
23.	Frederick L. Thayer,	4 Howard place,	Sept. 4, 1894,	U. S.,	43
24.	Albert H. Shaw,	133 Sherman st.,	March 11, 1895,	Eng.,	48
25.	James J. Donovan,	708 Union st.,	June 30, 1896,	Ire.,	41
26.	Edgar A. Littlefield,	559 Dickinson st.,	June 30, 1896,	U. S.,	38
27.	Patrick H. McDonald,	Parker st., I. O.,	June 30, 1896,	U. S.,	47
28.	Edward P. Tilton,	790 White st.,	June 30, 1896,	U. S.,	44
29.	John L. Harrington,	541 Main st.,	Nov. 16, 1896,	U. S.,	46
30.	James M. Daly,	31 Lillian st.,	Nov. 23, 1896,	U. S.,	45
31.	James H. Rogers,	340 Walnut st.,	Feb. 1, 1897,	U. S.,	62
32.	John A. Swift,	29 Prince st.,	Feb. 15, 1897,	Ire.,	40
33.	Michael J. O'Brien,	44 Rutledge ave.,	Feb. 15, 1897,	U. S.,	37
34.	Michael F. Egan,	49 Beaumont st.,	March 22, 1897,	Ire.,	46
35.	Patrick O'Keefe,	597 Union st.,	March 22, 1897,	Ire.,	43
36.	Martin P. Costello,	38 Brookline ave.,	March 28, 1898,	U. S.,	36
37.	Andrew J. Melaney,	735 East Liberty st.,	March 20, 1899,	U. S.,	34
38.	Albert F. Ward,	18 Morris st.,	March 20, 1899,	U. S.,	33
39.	Simon J. Connery,	14 Crystal ave.,	Sept. 26, 1899,	U. S.,	44
40.	George L. Warriner,	125 William st.,	July 13, 1900,	U. S.,	63
41.	Ovila L. Huot,	50 Bradford st.,	July 13, 1900,	Can.,	38
42.	Michael Kennedy,	Police bldg.,	July 13, 1900,	Ire.,	34
43.	William J. Grady,	57 Oak st.,	July 13, 1900,	U. S.,	46
44.	Daniel J. Twohig,	448 Hancock st.,	July 13, 1900,	U. S.,	33
45.	Timothy J. Hallahan,	37 Brookline ave.,	Oct. 17, 1901,	Ire.,	37
46.	Chas. W. Geary,	Police building,	Oct. 17, 1901,	U. S.,	37
47.	Jas. T. Raiche,	40 Sumner ave.,	Oct. 17, 1901,	U. S.,	35
48.	Daniel Griffin,	24 Murray Hill ave.,	Oct. 17, 1901,	U. S.,	36
49.	John F. Bacon,	105 Franklin st.,	Oct. 17, 1901,	U. S.,	33
50.	John Hendrickson,	6 Ripley ave.,	Oct. 17, 1901,	U. S.,	35
51.	John L. Maloney,	Police building,	Oct. 28, 1901,	U. S.	30
52.	John C. Woolley,	17 Continental ave.,	Jan. 20, 1902,	Can.	32

	Name.	Residence.	Date of Appointment.	Nativity.	Age.
53.	Ernest P. Marble,	46 Hunter place,	Dec. 30, 1902,	U. S.,	28
54.	Jas. F. Dagnan,	30 Vinton st.,	Jan. 2, 1903,	U. S.,	32
55.	Alexander Gray,	182 Tyler st.,	Jan. 20, 1903,	Scot.,	37
56.	Edwin C. Holbrook,	71 Walnut st.,	Sept. 1, 1903,	U. S.,	39
57.	Henry C. Hatfield,	69 Worcester ave.,	Feb. 14, 1905,	U. S.,	38
58.	Patrick Lynch,	426 Worthington st.,	June 5, 1905,	Ire.,	39
59.	Geo. W. Neil,	Police building,	July 11, 1905,	Can.	32
60.	John P. Sullivan,	153 King st.,	Oct. 18, 1905,	U. S.,	33
61.	Patrick J. O'Connor,	77 Main st.,	Jan. 11, 1906,	Ire.,	30
62.	Thos. Maloney,	37 Summer st.,	Jan. 11, 1906,	Ire.,	30
63.	Melvin H. Ransom,	59 Bliss st.,	Jan. 11, 1906,	U. S.,	29
64.	Frederick J. Runnells,	39 North st.,	Jan. 11, 1906,	U. S.,	28
65.	Walter J. Ayers,	74 Massasoit st.,	Jan. 11, 1906,	U. S.,	27
66.	Marshall A. Belmer,	139 Washburn st.,	Jan. 11, 1906,	U. S.,	27
67.	Wm. J. Hurley,	53 Seventh st.,	April 3, 1906,	Ire.,	33
68.	Wm. H. Tobey,	Police building,	Sept. 11, 1906,	U. S.,	37

RESERVE FORCE.

69.	Wm. E. O'Connor,	31 Cass st.,	June 14, 1904,	U. S.,	24
70.	Edward Carey,	73 Marble st.,	June 14, 1904,	Ire.,	34
71.	Llewellyn D. Carey,	374 Belmont ave.,	June 22, 1904,	U. S.,	34
72.	Wm. F. Goldrick,	48 Bond st.,	Jan. 3, 1905,	Ire.,	34
73.	Michael F. Sullivan,	128 Pendleton ave.,	Jan. 3, 1905,	U. S.,	32
74.	Everett B. Bogert,	496 Mill st.,	Feb. 16, 1905,	U. S.,	33
75.	Neal Ferry,	690 Union st.,	June 13, 1905,	Ire.,	39
76.	Joseph D. Powers,	156 North st.,	June 13, 1905,	U. S.,	30
77.	Fred W. Garipay,	36 Carew st.,	July 11 1905,	U. S.,	33
78.	Wm. McDougall,	28 Tracy st.,	Nov. 7, 1905,	Eng.,	36
79.	Horace G. Clark,	13 Fulton st.,	Mar. 7, 1906,	U. S.,	31
80.	Fred E. Jenness,	40 Lexington ave.,	Mar. 7, 1906,	U. S.,	28
81.	A. L. J. Letendre,	72 Cleveland st.,	Mar. 7, 1906,	Can.,	28
82.	Frederick P. Smith,	34 Elliott st.,	June 6, 1906,	U. S.,	28
83.	Geo. F. Russell,	71 Central st.,	June 6, 1906,	U. S.,	29
84.	Joseph A. Murphy,	98 Bowles st.,	Oct. 2, 1906,	U. S.,	33
85.	Jas. A. Dowling,	43 North st.,	Oct. 2, 1906,	U. S.,	38

Clerk,	David E. Berggren,	30 Adams st.
Chauffeur,	Montague R. Marsh,	67 Benton st.
Asst. Chauffeur,	Fred D. Williams,	Sumner Ave. Extension.
Asst. Chauffeur,	Harry R. Button,	111 Union st.
Matron,	Mrs. M. E. Holley,	Police building.
Electrician,	Samuel L. Wheeler,	38 Sheldon st.
Janitor,	Clayton J. Lewis,	30 Bridge st.

RETIRED AND PENSIONED.

	Date of Appointment.	Retired.
Sergt. Fred Hadd,	Jan. 20, 1872,	June 28, 1906.

DIED.

		Died.
George Alderman,	**Jan. 17, 1876,**	**Mar. 10, 1906.**

TABULATED STATEMENT OF ARRESTS.

For the Year Ending Nov. 30, 1906.

	Dec.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Totals.
Males	194	212	187	228	230	263	235	309	309	263	281	241	2,952
Females	13	30	22	24	33	20	28	17	16	24	20	17	264
Americans	135	165	132	168	180	186	168	214	211	187	185	160	2,091
Foreigners	72	77	77	84	83	97	95	112	114	100	116	98	1,125
Residents	126	167	130	169	193	198	188	234	202	185	214	174	2,180
Non-Residents	81	75	79	83	70	85	75	92	123	102	87	84	1,036
Adults	192	206	190	229	225	262	239	271	294	256	269	241	2,874
Minors	15	36	19	23	38	21	24	55	31	31	32	17	342
Total Arrests	207	242	209	252	263	283	263	326	325	287	301	258	3,216

DISPOSITION OF CASES.

Fined and Paid	15	41	32	33	69	44	36	71	68	39	36	37	521
Committed in Default of Payment of Fine	57	53	41	45	50	56	45	51	52	60	55	31	596
Committed on Sentence	35	31	27	43	31	26	28	41	29	26	40	46	403
Probated	6	8	10	9	8	8	9	5	9	6	11	4	93
Sentence suspended	43	51	47	56	53	67	50	77	89	64	69	62	728
Appealed	1		3	4	3	11		1	1	2	2		28
Bound Over to Superior Court	1		5	2	2	1	2	1		1	1		16
Released	40	34	40	44	42	51	53	60	51	64	76	64	619
Discharged		3	5	5	5	5	7	10	5	10	2	3	60
Pending													73
Filed Away	8	9	3	7	2	3	3	10	13	4	10	6	78
Defaulted								1					1
Total													3,216

Amount of fines imposed	$682	$1057	$732	$660	$854	$884	$698	$799	$1118	$775	$753	$570	$9582
Amount of fines paid	166	364	227	188	482	459	342	404	750	255	335	397	4369

COMPLAINTS AGAINST OFFICERS.

For the year ending Nov. 30, 1906.

Number of complaints against officers,	3
Sustained—	
Conduct unbecoming an officer,	2
In one case, fined thirty days' pay; in the other, suspended without pay one day.	
Not Sustained—	
Conduct unbecoming an officer,	1
Total,	3

STOLEN AND RECOVERED PROPERTY.

For the year ending Nov. 30, 1906.

Value of property reported stolen,	$5,940.00
Value of property recovered,	4,995.18
Value of property recovered for other cities,	1,050.00
Value of property found exposed, and cared for	117.25
Number of bicycles recovered or found, and delivered to owners:—	
Bicycles reported lost or stolen,	97
Bicycles recovered,	71
Number of bicycles found on the street and delivered to owners,	56
Number of bicycles found on the street and unclaimed,	19

THEATRICAL POSTERS INSPECTED.

For the year ending Nov. 30, 1906.

Number of posters inspected,		1,334
Approved,	1,192	
Disapproved,	142	
		1,334

REPORT OF THE MATRON.

For the year ending Nov. 30, 1906.

Female prisoners,	256
Females detained,	14
Females insane,	30
Female lodgers,	12
Lost children,	61
Total,	373

PATROL AND AMBULANCE REPORT.

For the year ending Nov. 30, 1906.

Number of Horse Patrol runs, days,	63	
Number of Horse Patrol runs, nights,	41	
		104

Number of Horse Ambulance runs, days,	130	
Number of Horse Ambulance runs, nights,	46	
		176
Number of Automobile Patrol runs, days,	1,513	
Number of Automobile Patrol runs, nights,	1,513	
Number of Automobile Emergency runs, days,	78	
Number of Automobile Emergency runs, nights,	67	
Number of Automobile Fire Alarm runs, days,	31	
Number of Automobile Fire Alarm runs, nights,	44	
Total,		3,246

Number of miles run during the year by Police Automobile,		6,336
Total number of runs for two years or since the Automobile was placed in commission,		5,435
Total number of miles run for two years,		11,514
Cost of gasoline and oil for year ending Nov. 30, 1906,	$152.23	
Average cost per mile for gasoline and oil,		.024+
Average cost per mile of gasoline and oil for two years,		.025+
Cost of repairs for year ending Nov. 30, 1906,	421.22	
Average cost per mile,		.66+
Total cost of expense including all outlay for repairs, gasoline, oil, etc., for two years or since installment,	880.05	
Average cost per mile for expense for two years,		.076+
Average cost per run for two years,		.16+
Near the close of the season a new set of tires were placed on the automobile at an expense of $181.00, which is included in the expense account but which should figure in the expense account for the next two years; deduct this amount from the expense account of the last two years and the amount will be,	$699.05	
or an average per mile,		.06+
average per run,		.12+

APPROPRIATIONS, RECEIPTS AND EXPENDITURES.

For the year ending Nov. 30, 1906.

Appropriation,	$94,600.00
Receipts from fines, fees, ambulance, etc.,	6,384.82
	$100,984.82
Expenditures,	100,862.30
Balance,	$122.52

MISCELLANEOUS DUTIES.

Accidents reported,	118
Buildings open and secured,	658
Defective streets reported,	50
Defective sidewalks reported,	85
Disturbances suppressed,	37
Disorderly houses reported,	10
Electric lights out,	1,527
Fire alarms given,	7
Fire alarms reported,	145
Fires extinguished by officers,	8
Gambling reported,	1
Intoxicated persons sent home,	26
Lost children restored,	64
Lights hung in dangerous places,	10
Liquor violations reported,	7
Night walkers reported,	4
Suspicious persons reported,	18
Teams put up,	27

OFFENSES.

Adultery,	11
Allowing minors in poolroom,	1
Assault and battery,	71
Assault on officer,	5
Assault with deadly weapon,	8
Assault intent to rob,	2
Assault indecent,	1
Attempted larceny,	2

Attempted larceny from building,	1
Attempt to break and enter,	1
Bastardy,	12
Bigamy,	2
Breaking and entering,	23
Breaking glass,	13
Breach of peace,	65
Carrying concealed weapon,	4
Common night walker,	10
Cruelty to animals,	3
Defacing real estate,	3
Delinquent children,	9
Deserters,	4
Detained as witness,	1
Discharging firearms,	11
Discharging fireworks,	6
Disorderly house keeping,	2
Disturbing meeting,	4
Drunkenness,	2,169
Escaped prisoner,	2
Evading railroad fare,	23
Fornication,	22
Fugitive from justice,	35
Gambling,	4
Habitual truant,	3
Insane,	55
Indecent exposure,	3
Keeping house of ill fame,	1
Larceny,	152
Larceny from the person,	3
Larceny from the building,	6
Lewd and lascivious cohabitation,	2
Maintaining a lottery,	3
Malicious injury to real estate,	1
Malicious mischief,	3
Non-support,	31
Peddling without license,	3
Profane and indecent language,	2
Rape,	2
Receiving stolen goods,	5

Ringing false alarm of fire,	1
Runaways,	45
Selling cigarettes to minors,	2
Setting bonfires,	1
Straggler,	1
Stubborn and disobedient,	15
Suspicious,	75
Taking and using,	13
Threatening,	1
Throwing missile at train,	6
Trespass,	1
Violating automobile law,	31
Violating bicycle law,	3
Violating bottle law,	2
Violating building law,	1
Violating city ordinance,	38
Violating condition of parole,	4
Violating dental registration law,	2
Violating employment law,	14
Violating food law,	9
Violating game law,	4
Violating health law,	4
Violating liquor law,	2
Violating Lord's day,	18
Violating medical registration,	1
Violating milk law,	1
Violating opium law,	2
Violating pool law,	1
Violating Sec. 20, Chap. 212,	1
Violating Sec. 2, Chap. 280,	1
Violating sleigh bell law,	1
Violating smoke law,	6
Vagrancy,	65
Walking railroad track,	38
Wayward children,	1
Total,	3,216

INVENTORY OF PROPERTY IN POSSESSION OF POLICE DEPARTMENT, NOV. 30, 1906.

Court street property,	$20,000 00
Court street buildings,	55,500 00
Indian Orchard property and buildings,	5,000 00
Police signal system,	8,300 00
Marshal's office,	525 45
Assistant Marshal's office,	184 00
Captain's office,	97 00
Inspectors' offices,	129 90
Matron's office,	91 50
Waiting room,	30 00
Sergeants' room,	78 50
Guard room,	286 25
Men's lockup,	7 00
Women's lockup,	4 75
Detention rooms,	34 50
Patrolmen's room,	1,378 00
Morgue,	167 00
Bicycle room,	125 00
Property room,	117 00
Corridor,	74 20
Janitor's supplies,	130 30
Basement,	874 35
Stable,	3,417 85
Emergency tools,	55 28
Dormitory,	177 50
Towels, bed linen and curtains,	75 75
Indian Orchard station,	199 50
Stationery,	223 15
Equipment,	1,875 05
Total,	$99,158 78

Respectfully submitted,

GEO. M. STEBBINS,

City Marshal.

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

WATER COMMISSIONERS.

CITY OF SPRINGFIELD, MASSACHUSETTS,

WATER DEPARTMENT.

1907.

BOARD OF WATER COMMISSIONERS.

EVERETT E. STONE, *Chairman,*	Term expires February 1, 1909.
CHARLES H. BENNETT,	Term expires February 1, 1908.
WILLIAM E. SANDERSON, *Mayor,*	ex officio.

SUPERINTENDENT:

ALFRED E. MARTIN.

REGISTRAR AND CLERK OF BOARD:

ALFRED R. HATHAWAY.

SANITARY ENGINEER:

ELBERT E. LOCHRIDGE.

CITY OF SPRINGFIELD, MASSACHUSETTS;

WATER COMMISSIONERS.

SINCE ACQUISITION OF WATER WORKS BY CITY, IN 1872.

The first Board of Water Commissioners (in charge of the early construction of Ludlow supply) consisted of the following *five citizens,* who were elected by the legal voters of Springfield, May 28, 1872, to serve until January 1, 1875, in accordance with the provisions of the *first* portion of Section 5, Chapter 345, of the Acts of 1872.

HORACE SMITH, *President,**
SAMUEL W. PORTER, *Secretary,*
A. D. BRIGGS,
GEO. C. FISK,
DANIEL L. HARRIS.

* Horace Smith resigned, and Charles O. Chapin was elected as his successor March 25, 1873; chosen President of Board April 5, 1873.

From January 1, 1875, to March 29, 1880, the Board of Water Commissioners consisted of *three citizens,* who were chosen by the City Council of Springfield in accordance with the *last* portion of Section 5, Chapter 345, Acts of 1872. This portion provides, that, "Thereafter the rights, powers and authority granted to the said city by this act shall be vested in and exercised by a board of water commissioners, consisting of *three citizens* of said city, who shall be chosen by the city council of said city, one for the term of one year from the first day of January in the year eighteen hundred and seventy-five, one for the term of two years, one for the term of three years, and annually thereafter one water commissioner shall be so chosen to serve for the term of three years."

Under these provisions the following Boards were elected:—

1875.

CHARLES O. CHAPIN, *President,*
SAMUEL W. PORTER, *Secretary,*
LAWSON SIBLEY.

1876.

CHARLES O. CHAPIN, *President,*
SAMUEL W. PORTER, *Secretary,*
LAWSON SIBLEY.

1877.

CHARLES O. CHAPIN, *President,*
SAMUEL W. PORTER, *Secretary,*
N. W. TALCOTT.

1878.

CHARLES O. CHAPIN, *President,*
SAMUEL W. PORTER, *Secretary,*
N. W. TALCOTT.

1879.

CHARLES O. CHAPIN, *President,*
SAMUEL W. PORTER, *Secretary,*
N. W. TALCOTT.

1880 (to March 29).

CHARLES O. CHAPIN, *President,*
SAMUEL W. PORTER, *Secretary,*
N. W. TALCOTT.

The Board of Water Commissioners established under the Act of 1872 was abolished by Chapter 30 of the Acts of 1880, which was accepted by the City Council and approved March 22, 1880, and Section 2 of which provides, that, "As soon as practicable after the passage of this act, the City Council of said city shall elect by ballot in joint convention *two citizens* thereof, one for the term of one year, and one for the term of two years, from February first in the year eighteen hundred and eighty, as water commissioners, who, with the *mayor* as an *ex officio* member, shall constitute the Board of Water Commissioners of said city of Springfield, * * * And hereafter said City Council shall annually in the month of January elect by ballot in joint convention one citizen as a member of said Board for the term of two years from the succeeding first day of February."

Under this act the following Boards were elected, each Board then choosing its Chairman:—

1880 (from March 29).

LEWIS J. POWERS, *Mayor and Chairman,*
HIRAM Q. SANDERSON,
NOYES W. FISK.

1881.

HIRAM Q. SANDERSON, *Chairman,*
WILLIAM H. HAILE, *Mayor,*
NOYES W. FISK.

1882.

HIRAM Q. SANDERSON, *Chairman,*
EDWIN W. LADD, *Mayor,*
NOYES W. FISK.

1883.

HIRAM Q. SANDERSON, *Chairman,*
HENRY M. PHILLIPS, *Mayor,*
NOYES W. FISK.

1884.

HIRAM Q. SANDERSON, *Chairman,*
HENRY M. PHILLIPS, *Mayor,*
NOYES W. FISK.

1885.

HIRAM Q. SANDERSON, *Chairman,*
HENRY M. PHILLIPS, *Mayor,*
NOYES W. FISK.

1886.

HIRAM Q. SANDERSON, *Chairman,*
EDWIN D. METCALF, *Mayor,*
NOYES W. FISK.

1887.

HIRAM Q. SANDERSON, *Chairman,*
ELISHA B. MAYNARD, *Mayor,*
NOYES W. FISK.

1888.

HIRAM Q. SANDERSON, *Chairman,*
ELISHA B. MAYNARD, *Mayor,*
NOYES W. FISK.

1889.

HIRAM Q. SANDERSON, *Chairman,*
EDWARD S. BRADFORD, *Mayor,*
NOYES W. FISK.*

***Noyes W. Fisk resigned June 10, 1889, and Charles L. Goodhue was elected June 24, 1889, as his successor.**

1890.

HIRAM Q. SANDERSON, *Chairman,*
EDWARD S. BRADFORD, *Mayor,*
CHARLES L. GOODHUE.

1891.

HIRAM Q. SANDERSON, *Chairman,*
EDWARD S. BRADFORD, *Mayor,*
CHARLES L. GOODHUE.

1892 (to May 1).

HIRAM Q. SANDERSON, *Chairman,**
LAWSON SIBLEY, *Mayor,*
CHARLES L. GOODHUE.

***Hiram Q. Sanderson died May 1, 1892, and Richard F. Hawkins was elected Commissioner June 6, 1892, for the balance of the former's term; Charles L. Goodhue was then chosen Chairman of the Board.**

1892 (from June 6).

CHARLES L. GOODHUE, *Chairman,*
LAWSON SIBLEY, *Mayor,*
RICHARD F. HAWKINS.

1893.

CHARLES L. GOODHUE, *Chairman,*
EDMUND P. KENDRICK, *Mayor,*
RICHARD F. HAWKINS.*

***Richard F. Hawkins, having served the portion of the term for which he was elected, declined to serve longer, and January 22, 1894, James F. Bidwell was elected as his successor.**

1894.

CHARLES L. GOODHUE, *Chairman,*
EDMUND P. KENDRICK, *Mayor,*
JAMES F. BIDWELL.

1895.

CHARLES L. GOODHUE, *Chairman,*
CHARLES L. LONG, *Mayor,*
JAMES F. BIDWELL.

1896.

CHARLES L. GOODHUE, *Chairman,*
NEWRIE D. WINTER, *Mayor,*
JAMES F. BIDWELL.

1897.

CHARLES L. GOODHUE, *Chairman,*
NEWRIE D. WINTER, *Mayor,*
JAMES F. BIDWELL.

1898.

CHARLES L. GOODHUE, *Chairman,*
HENRY S. DICKINSON, *Mayor,*
JAMES F. BIDWELL.

1899.

CHARLES L. GOODHUE, *Chairman,*
DWIGHT O. GILMORE, *Mayor,*
JAMES F. BIDWELL.

1900.

CHARLES L. GOODHUE, *Chairman,*
WILLIAM P. HAYES, *Mayor,*
JAMES F. BIDWELL.

1901.

CHARLES L. GOODHUE, *Chairman,*
WILLIAM P. HAYES, *Mayor,*
JAMES F. BIDWELL.

1902.

CHARLES L. GOODHUE, *Chairman,*
RALPH W. ELLIS, *Mayor,*
JAMES F. BIDWELL.*

*** James F. Bidwell resigned July 1, 1902, and Charles H. Bennett was elected July 28, 1902, as his successor.**

1903.

CHARLES L. GOODHUE, *Chairman,*
EVERETT E. STONE, *Mayor,*
CHARLES H. BENNETT.

1904.

CHARLES L. GOODHUE, *Chairman,**
EVERETT E. STONE, *Mayor,*
CHARLES H. BENNETT.

*** Charles L. Goodhue resigned January 23, 1905, and Everett E. Stone was elected Commissioner January 31, 1905, and was then chosen Chairman of the Board.**

1905.

EVERETT E. STONE, *Chairman,*
FRANCKE W. DICKINSON, *Mayor,*
CHARLES H. BENNETT.

1906.

EVERETT E. STONE, *Chairman,*
FRANCKE W. DICKINSON, *Mayor,*
CHARLES H. BENNETT.

1907.

EVERETT E. STONE, *Chairman,*
WILLIAM E. SANDERSON, *Mayor,*
CHARLES H. BENNETT.

WATER COMMISSIONERS' REPORT.

Water Commissioners' Office,
43 Bridge Street,
Springfield, Mass., December 31, 1906.

To the City Council of the City of Springfield, Mass.

Gentlemen:—The Board of Water Commissioners herewith submits its thirty-third annual report, being for the fiscal year ending December 10, 1906, together with reports of its Registrar, Superintendent and Sanitary Engineer.

FINANCIAL.

The department has experienced a prosperous year. The total *cash* receipts collected from all sources were $286,790.54, an increase over that of the previous year of $8,163.17.

The total cash expenses of the department, including the interest on the bonded debt and all new construction, were $135,646.05, and $50,268.53 for the construction of the new intermittent filter at Ludlow, leaving a net surplus of $100,875.96 for the sinking fund. In addition to the above it should be borne in mind that the city receives approximately $52,000 worth of water for use in the public buildings, street sprinkling, and sewer flushing, park uses and fire protection, free. This amount if included in the tax levy would represent an increase of about 60 cents on a $1,000 valuation.

The *cash* expenditures of the department may be classified as follows:—

MAINTENANCE.

Management and repairs (operating, etc., including taxes),	$39,334 72	
Interest on bonds,	21,875 00	
Engineering,	3,735 38	
Distribution system study,	1,529 18	
Ludlow intermittent filter,—operating,	6,909 14	
Distribution mains,—renewals,	3,076 89	
Sundry small items,	122 22	
Total *charged* maintenance (including interest), 1906,	$76,582 53	
Less *value* of use of water by water department, and *value* of house rentals allowed employees—(included above under "management and repairs," but *not cash*),	977 17	
Total maintenance (including interest) paid from cash receipts, 1906,		**$75,605 36**

CONSTRUCTION.

17,034 feet of new distribution mains,—(including 2,242 feet of 16″ high service pipe from Pine street, via George, Maple, Mill, and Dickinson streets to Orange street, for improving the supply south of Mill river),—and a new 10″ main through Pearl and Byers streets,	$24,054 14	
Little river water supply,—(surveys and engineering prior to passage of legislative act),	5,438 96	
Amounts carried forward,	$29,493 10	**$75,605 36**

Amounts brought forward,..	$29,493 10	$75,605 36
Little river water supply,—(studies and surveys since order of City Council, approved July 2, 1906),	4,395 86	
Ludlow intermittent filter,—order of City Council, Nov. 21, 1905),	50,268 53	
Westfield river possible supply,—(legal expense prior to 1906) (*net*), ...	1,299 10	
Sundry small items,.............	455 42	
Total *charged* construction, 1906, ...	$85,912 01	
Less sundry small sales of property and sundry material returned to stock, heretofore charged to this account—(included below under "Material and Labor" sold, and "Inventory"), ...	755 02	
Total construction paid from cash receipts, 1906,.....		85,156 99

MATERIAL AND LABOR.

Cost of "Sales" charged to consumers for services, meters, repairs, etc., ...	$22,201 92	
Surplus material, etc., purchased during the year,—(included in "Inventory, December 1, 1906"),	2,950 31	
Total "Sales" etc., paid from cash receipts, 1906,		25,152 23
Total expenditures from cash receipts (per approved bills and pay rolls), 1906,...........		$185,914 58

This leaves a cash surplus for the sinking fund, amounting to $100,875.96, as previously stated.

The management and repair account is smaller than in 1905, mainly due to the absence of operating expenses from the auxiliary pond supplies, which amount in 1905 was $4,330.70. To offset this, however, should be added the operation of the filter plant, $6,909.14, which makes a slight net increase over last year.

The bonded indebtedness outstanding December 10, 1906, was $555,000. There is available in the sinking fund to meet this amount $151,255.09. This amount placed at interest will be a good nucleus towards the payment of the Ludlow debt and, with the amounts which it is proposed to set aside each year, will pay off all debts incurred on the old supply without in any way hindering the new work which, of necessity, must be done.

A payment of $40,000, due April 1, 1907, on the 3½ per cent refunding bonds, is the only payment to be taken care of during the coming year. This will leave but one more payment of an equal amount due on these bonds. The interest on the bonded debt in 1907 will be $20,475, which is $1,400 less than the amount paid the past year.

The details of this indebtedness will be found in the report of the Registrar.

In the Acts allowing the city to take for its water supply the Ludlow and Jabish brook sources, provision was made whereby all cash surplus that remained after the payment of current expenses and the interest on the debts, should at the close of the year be transferred to a sinking fund. Chapter 317 of the Acts of 1906, removes any such provision for a sinking fund, and we therefore believe that for the payment of this debt some provision should be made by which it will be possible to retire each of the bonds not now paid, by laying aside certain sums each year, and provision for laying aside these amounts should be made by ordinance or otherwise. The surplus receipts should then be expended for the improvement of the system until such time as it shall be in first class condition.

LITTLE RIVER SUPPLY.

As recorded in our report of last year, the Mayor and the Board of Water Commissioners were requested to petition the General Court for authority to take the water of the Little river for an additional water supply for the city of Springfield. Following the advertising of this petition, the bill was introduced and referred to the Joint Committee on Water Supply, and hearings were ordered January 8, 1906. Many hearings were held, extending through February, March, and April, during which time the case was presented by the city of Springfield and strenuously opposed by the town of Westfield and affected interests.

The city was ably represented by the services of Attorney William H. Brooks, special counsel for the Water Department, and City Solicitor E. W. Beattie, Jr., and by the senator from Springfield and the city's representatives. Mr. Allen Hazen, Mr. John R. Freeman, Mr. E. V. French, Mr. Charles T. Main, noted engineers in water supply and fire protection lines, gave their testimony for the city of Springfield before the Water Supply Committee. The bill became a law April 25, 1906, when it was signed by the Governor.

This Act was adopted by your Honorable Body June 19, 1906, as an ordinance. This is printed as Appendix III. to this report.

On July 2, 1906, an order was passed by the City Council authorizing the Water Commissioners "to make necessary surveys and studies for a more complete plan of development of the Little river water supply, to furnish estimates thereon, and present the same for the information and approval of the City Council, and do such other things as may be necessary to protect the city's interests."

Complying with such authorization, your Board employed Mr. Allen Hazen to make such additional studies, and he appeared before you and explained his report of October 5, which was presented to you October 15, and a copy of which is printed as Appendix IV. to this report.

On December 11, 1906, your Honorable Body authorized the Board of Water Commissioners to take the waters of the Westfield Little river, and proceed with the construction of the work, and authorized a bond issue of $540,000.

The copy of this authorization follows:—

Ordered, if the Common Council concur, that pursuant to the provisions of Chapter 317 of the Acts of 1906 of the Legislature of Massachusetts, entitled "An Act to Authorize the City of Springfield to Increase its Water Supply," the Board of Water Commissioners of the city of Springfield be and they are hereby authorized in the name and in behalf of the city of Springfield, for the purpose of increasing the water supply of said city, to take, hold, store, and convey to, into and through its system of water works the waters of the Westfield Little river and its tributaries, the place of diversion of the waters to be on said Westfield Little river not less than four hundred feet above mean sea level, as provided by said Chapter; and that said Board of Water Commissioners be and they are hereby authorized to do all such acts as may be necessary for carrying out the purposes of this order.

And it is further ordered, that pursuant to the provisions of said Act, said Board of Water Commissioners be and they are hereby authorized in the name and in behalf of the city of Springfield, to take and hold, by purchase or otherwise, any and all lands, rights of way, easements or other rights of property which said Board may from time to time deem necessary for any of the purposes of said Act.

And it is further ordered, that in accordance with the provisions of Sections Eight and Nine of said Chapter, the city of Springfield shall issue its coupon bonds to an amount not exceeding in the aggregate five hundred and forty thousand dollars ($540,000). Such bonds shall bear on their face the words, "City of Springfield Westfield Little River Water Loan," and shall be dated and payable as follows:—

$270,000 of said issue shall be dated January 1, 1907, and shall be payable in annual proportionate payments of ten thousand dollars each, after January 1, 1910, when the first payment shall be due, until January 1, 1936, when the last payment shall be made.

$270,000 of said issue shall be dated January 1, 1908, and shall be payable in annual proportionate payments of ten thousand dollars each, after January 1, 1911, when the first payment shall be due, until January 1, 1937, when the last payment shall be made.

Said bonds shall bear interest payable semi-annually, on the first days of January and July of each year, at a rate not exceeding four per cent per annum, to be determined by the Mayor and City Treasurer at the time said bonds are issued.

The bonds shall be issued in amounts of one thousand dollars each, with interest warrants or coupons attached, both interest and principal being made payable at the First National Bank, Boston, Massachusetts.

The bonds shall be signed by the City Treasurer and countersigned by the Mayor.

The Mayor and City Treasurer are hereby authorized to sell such bonds upon such terms and conditions as they may deem proper, provided, however, that said bonds shall not be sold for less than the par value thereof.

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 11, 1906.

Approved. (Signed) FRANCKE W. DICKINSON, *Mayor.*

One of the early matters requiring attention will be the acquisition of the land needed, and the Board will commence promptly to get necessary lands and rights. The present appropriation will fully cover any expenditures that it will be necessary to make this coming year, but before most of the contracts for the other larger features of the project can be made, provision for their payment will be necessary.

Under date of December 6, 1906, the State Board of Health approved the plans submitted to them for the location of the proposed reservoirs, filters, and pipe lines.

DISTRIBUTION SYSTEM.

In 1872 when the plant of the Springfield Aqueduct Company was acquired, Springfield had a population of 28,000, while to-day it has a population of over 76,000. It was impossible in the days of the construction of the distribution system to foresee the extent and manner of the development of the city.

During the years following this acquisition, much cement-lined distribution pipe was laid, in all sizes, but in many streets it was as small as 3″ and 4″ in diameter.

With the development of the city has come the development of industries, so that larger and higher buildings are now constructed. The demand for water for fire protection is consequently greater, and it is the demand in all cities of Springfield's class that there shall be certain minimum sizes of pipe, smaller than which no pipe shall be laid. Many cities have adopted for this smallest size 6″ pipe, while others now lay nothing smaller than 8″.

There have been during the past year several studies made on the fire situation in the city. It is recognized that the system as it exists to-day must needs be so changed as to give better fire protection. In August the Committee on Fire Prevention of the National Board of Fire Underwriters reported on their studies of the spring and summer. In October a committee of the Springfield Board of Trade reported along similar lines, and recommended certain minimum sizes of pipe, spacing, and sizes of hydrants. Before either of these reports was submitted to the city, this Board, realizing that certain protective measures should be taken, made arrangements by which the engineering firm of Hazen & Whipple sent to Springfield Mr. R. D. Chase, to make an accurate and extensive study of the conditions in every part of the city of Springfield. This work was to have been reviewed during its progress and on its completion by Mr. John R. Freeman, one of the leading fire protection and water supply engineers of the United States. Mr. Chase commenced his work in Springfield June 12, and completed his studies December 1, 1906.

One of the earliest questions to be decided was whether with the taking of the Little river supply the city should be served by one or two systems of water mains. Plans were drawn for each method and, when the study was far enough advanced to be discussed intelligently, the question was placed before Mr. Freeman for his recommendation. He very strongly advised a single system which would deliver water to the higher and residential sections of the city under a pressure of from 70 to 80 pounds, and a resulting pressure of 140 pounds in the business district. This pressure would with the enlargement of the mains guarantee more adequate fire protection than could be secured with the use of fire engines.

Before the Little river water is finally turned into the Springfield system, it will be necessary to relay a portion of the mains of the smaller sizes and old cement-lined construction, which have been in the ground for a long term of years. These of necessity would have had to be relaid in the near future in any event. The plans which were formulated by Mr. Chase, and which are now before Mr. Freeman for his approval, form a plan from which it will be possible to work during the next several years. When these plans are carried out several sections of the city which are now largely dependent on the low service mains for their supply will receive equal service with the present more favored portions of the city.

It has not seemed wise to this Board to ask that bonds be issued for the payment for these improvements and renewals within the city, and for this reason study has been made of the probable expenditure during the next few years, including interest and payments on the Ludlow debts and serial payments and interest on the Little river debt. If the plan for retiring the debts is carried out substantially as proposed, there will be available for this work substantial sums which will gradually but effectively bring about the changes needed, and the system will be placed in excellent condition. Before the time when the Little river can be utilized, all of the older pipes will have been removed and other needed improvements accomplished.

Included in this work is the expense of a large new feeding main, which will connect the two present mains from the Ludlow sources, as well as the new main from Little river, across the city through the resident sections, and deliver a large volume of water direct to each portion of the city. One such main is planned, the possible route of which will extend across the resident sections via Thompson, Hancock, Walnut, and Oakland streets to Garfield street, where it will meet another large main that is proposed to be laid from the North end via Fulton and Water streets, Fort Pleasant avenue, Forest Park avenue, and connect at Garfield street. This will completely circle the city, giving better pressure and more adequate service.

On many of the older pipes the distance between hydrants is excessive, and it is the purpose of this Board to afford as complete and adequate protection to each portion of the city as can be done, and for this reason new and improved hydrants are being set at more frequent intervals as rapidly as possible. All new pipes when laid will be supplied with hydrants reasonably spaced.

METERS.

During the past year to December 1 there have been installed 456 new meters. While all new consumers must, under existing rules, install meters, the classes already supplied with water and now required to have meters have been extended during the past year to public garages, public laundries, and, last and most important, after April 1, 1907, all service pipes larger than 1¼″ in diameter are to be supplied with metered water only. In addition to this action on the meter question, a careful system for recording the history of meters, including the testing and repairing, has been established, and it has further been decided to test all meters free of expense to the owner or taker, if it be considered advisable by the Superintendent that such test be made. The Board has now ordered all meters sealed as well as all gates on fire services and all private fire hydrants. We believe that, with this further increase in the meter system and also safeguarding of fire pipes, much water will be saved for the city. It is the purpose of the Board to extend ultimately meters to every user of water.

INTERMITTENT FILTRATION.

In accordance with your order of November 20, 1905, your Board has constructed at the Ludlow reservoir an intermittent filter covering substantially four acres. Every energy was exercised in order that this filter should be in operation before the season of bad water should have commenced in the Ludlow reservoir. The water was first turned on to the completed filter July 6, 1906, and the filter was in operation during all of the period when the water in the reservoir was objectionable. The results obtained have justified the expenditure of the $50,000 which this improvement cost. The operation of this filter has rendered the operation of any of the pumps on the auxiliary pond supplies unnecessary during the past year. A more detailed description of the operation of this filter will be found in the report of the Sanitary Engineer.

DETAILS.

The details of the finances and the work of the department during the past year will be found in the reports and appendices of the Water Registrar, the Superintendent, and the Sanitary Engineer, submitted to the Board. These reports are attached and made a part of this report.

Respectfully submitted,

E. E. STONE,
C. H. BENNETT,
FRANCKE W. DICKINSON,
Board of Water Commissioners.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

WATER REGISTRAR'S REPORT.

To the Board of Water Commissioners of the City of Springfield:—

GENTLEMEN:—The following report of the Water Registrar for the fiscal year ending December 10, 1906, is herewith respectfully presented.

For convenient reference the statements given are separated into three principal divisions, viz.:—

1.—General Financial.
2.—Detail Financial.
3.—Miscellaneous.

1.—GENERAL FINANCIAL STATEMENTS.

CASH ACCOUNT.—1906.

To collections paid City Treasurer by City Collector,		**$286,790 54**
By approved bills and pay rolls paid by City Treasurer, as follows:—		
Total pay rolls approved and paid,	**$51,623 59**	
Total bills approved and paid,	**112,415 99**	
	$164,039 58	
By interest on water bonds paid by City Treasurer,	**21,875 00**	
By surplus balance for sinking fund,	**100,875 96**	
		$286,790 54

The net cost of maintenance and construction during the year has been charged to the following accounts:—

MAINTENANCE.—1906.

General:—		
Management and repairs (including taxes), ...	$39,334 72	
Interest on bonds, ...	21,875 00	$61,209 72
Special:—		
Engineering, ...	$3,735 38	
Damages (from broken mains, etc.), .	118 72	
Bridge street yard improvements, (account 1905), ...	2 00	
Distribution system study, . . .	1,529 18	
Experimental purification (copper tests) (account 1905), . . .	1 50	
Ludlow intermittent filter plant (operating), ...	6,909 14	
Distribution mains,—renewals, . .	3,076 89	15,372 81
Total charged, 1906, ...		$76,582 53

(Of the above total $75,605.36 represents amount paid from *cash receipts*, the balance of $977.17 consisting of the following: *value* of water used by water department $138.17, and *value* of house rentals allowed employees $839.00, both included above under "management and repairs," but *not cash*;—see "Income—Value Accounts.")

CONSTRUCTION.—1906.

Distribution mains—extension, ...	$24,054 14	
Hydrants—extension, ...	176 63	
Gates and valves—extension, ...	78 59	$24,309 36
Services—extension (charged city, 1906),		60 18
Real estate,—Bridge street,—		
Shop and store-room improvement (storage), ...		83 52
Ludlow intermittent filter,—ordered by City Council October 31 and November 21, 1905 (completing), ...		50,268 53
Amount carried forward, ...		$74,721 59

Amount brought forward, . . .		$74,721 59
Little river possible supply—(gaging flow, surveys, plans, estimates, and legislative expense in connection with act authorizing taking such supply)—December, 1905 to June, 1906, ...	$5,438 96	
Little river supply—("surveys and studies for a more complete plan of development," per order of City Council, July 2, 1906)—July to November, 1906, ..	4,395 86	
		9,834 82
Westfield river possible supply—(legal expense, account of 1905=$1300; *less* 90 cents credited for refund of expressage on samples in 1905), ...		1,299 10
Private telephone lines—city—(sound-proof booth at Collector's office), . . .		56 50
Total charged, 1906, ...		$85,912 01
Less amounts credited following accounts:—		
Five Mile Pond pumping station,—equipment,—12″ suction pipe returned to stock, ...	$20 00	
Loon pond pumping station,—equipment,—material returned and sold, . . .	15 62	
Venturi meters,—4″ gem meter returned to stock, . .	125 00	
Old "Construction" account,—sale of sand from old reservoir property, ($34.60), 16″ pipe from Higher brook canal line returned to stock, ($101.25), and material from Ferry street, 6″ low service cast-iron main returned to stock, ($458.55),	594 40	
Total credited, 1906, ...		755 02
Net total construction added, 1906,		$85,156 99

—(*All paid from cash receipts.*)—

COST OF WATER WORKS.—1906.

Net total cost, December 10, 1905,		$2,314,323 67
Net aggregate construction added, 1906,		85,156 99
Net total cost of water works to December 10, 1906,		$2,399,480 66

Divided as follows:—

Balance of *old "Construction" account* in ledger to *December 10, 1893*, (in future to be analyzed and separated, so far as possible, into its component construction and property accounts),	$1,656,562 98	
—(Note amounts credited, etc., since 1899.)—		
Net cost of *Ludlow Main No. 2* to date,	320,986 83	
NET *aggregate of new construction and property accounts*, as classified in ledger and annual reports since 1893,	421,930 85	
Total as stated,		$2,399,480 66

BONDED DEBT.—1906.

(*As per books of City Treasurer.*)

125 water bonds bearing interest at 3½ per cent. (par value $1,000 each), issued in 1890 for Ludlow reservoir improvement, and all due October 1, 1920,		$125,000 00
350 water bonds bearing interest at 4 per cent. (par value $1,000 each), issued in 1893 for Ludlow Main No. 2, and due as follows:—		
$200,000 payable April 1, 1913,	$200,000 00	
$150,000 payable October 2, 1923,	150,000 00	350,000 00
80 water bonds bearing interest at 3½ per cent. (par value $1,000 each), issued in 1903 for refunding balance of 7 per cent. bonds then maturing, and due as follows:— $40,000 payable each year from April 1, 1907, to April 1, 1908,		80,000 00
Total account water works, December 10, 1906,		$555,000 00

SINKING FUND.—1906.

Balance in hands of Sinking Fund Commissioners, December 10, 1905, . .		**$124 00**
***Net* surplus transferred from water works receipts of 1905, ...**		**91,989 24**
Interest earnings and additions credited by sinking fund commissioners, 1906, .		**3,039 92**
		$95,153 16
Less accrued interest and proportion of premiums paid, charged off by sinking fund commissioners, 1906, ...	**$4,774 03**	
Less amount paid City Treasurer to meet 3½ per cent. refunding bonds due April 1, 1906, ...	**40,000 00**	**44,774 03**
Balance in bands of sinking fund commissioners, December 10, 1906, . .		**$50,379 13**
Available surplus from water works receipts of 1906, ...		**100,875 96**
Total amount available, December 10, 1906,		**$151,255 09**

INVENTORY.—1906.

The value of stock, tools, furnishings, fixtures, etc., on hand December 1, 1906 (as reported by the Superintendent and the Engineer), is distributed to the following accounts:—

Accounts.	Superintendent.	Engineer.	Totals.
Automobile,	**$500 00**	**. . . .**	**$500 00**
Cast-iron pipe stock,	**7,309 77**	**$344 42**	**7,654 19**
Engineering apparatus,	**. . . . .**	**589 55**	**589 55**
Filter supplies,	**. . . . .**	**373 75**	**373 75**
Meter stock,	**1,167 39**	**. . . .**	**1,167 39**
Furniture and fixtures,	**1,642 52**	**11 50**	**1,654 02**
Stores and supplies,	**1,757 10**	**120 95**	**1,878 05**
Teams,	**3,119 30**	**196 20**	**3,315 50**
Tools and machines,	**2,494 12**	**500 31**	**2,994 43**
Wrought-iron pipe stock,	**1,943 37**	**129 16**	**2,072 53**
Aggregate,	**$19,933 57**	**$2,265 84**	**$22,199 41**

2.—DETAIL FINANCIAL STATEMENTS.

Receipts.—1906.

The following statements of the collection accounts show the analysis of the *cash* receipts of the department:—

BILLS COMMITTED AND CHARGED TO COLLECTOR.

COLLECTION ACCOUNTS.	Uncollected Dec. 10, 1905.	Committed During 1906.	Totals.
Water rates—annual, ...	$996 78	$138,144 55	$139,141 33
Water rates—meter, ...	517 31	118,657 97	119,175 28
Water rates—hose and fountains,	55 00	4,889 50	4,944 50
Water rates—builders, ...	67 17	1,321 06	1,388 23
Water rates—miscellaneous,* . .	119 20	*733 09	852 29
Total water accounts, ...	$1,755 46	$263,746 17	$265,501 63
Services and repairs, ...	$1,453 85	$11,950 28	$13,404 13
Meters and repairs, ...	1,557 42	8,135 54	9,692 96
Fines and penalties, ...	32 00	318 00	350 00
Off and on, ...	22 69	65 00	87 69
Seals, ... ,	. . .	5 34	5 34
Miscellaneous accts, (sales, etc.),**	779 50	**5,745 06	6,524 56
Total sales accounts,	$3,845 46	$26,219 22	$30,064 68
Totals charged 1906, ...	$5,600 92	$289,965 39	$295,566 31

*The amount of $733.09 charged during 1906 for *"Water rates—miscellaneous,"* includes:—

Rates for sundry season uses, ...	$188 00
" " fish tanks and aquariums, ...	12 00
" " special and temporary uses (circuses, etc.), . .	21 45
" " main pipe guarantees, ...	511 64

**The amount of $5,745.06 charged during 1906 for *"Miscellaneous accounts,"* includes:—

Rental of real estate and loan of tools, etc., ...	$1,605 00
Shop sales of material and labor (accommodation, only), .	1,511 88
Sundry sales (not shop), of wood, sand, grass, manure, etc.,	216 35
Work for street watering department (construction=$294.78; maintenance=$678.96), ...	973 74
Work for other city departments, ...	491 24
Board received for men operating filter plant, ...	46 48
Sale of old horses, ...	300 00
Miscellaneous work for private parties, ...	600 37

AMOUNTS ABATED TO COLLECTOR, AMOUNTS UNCOLLECTED, AND AMOUNTS COLLECTED AND PAID CITY TREASURER.

COLLECTION ACCOUNTS.	Abated During 1906.	Uncollected Dec. 10, 1906.**	Collected During 1906.
Water rates—annual, ...	*$4,009 87	$375 43	$134,756 03
Water rates—meter, ...	555 32	42 49	118,577 47
Water rates—hose and fountains,	55 00	20 00	4,869 50
Water rates—builders, ...	4 00	185 45	1,198 78
Water rates—miscellaneous, . .	8 00	59 08	785 21
Total water accounts, ...	$4,632 19	$682 45	$260,186 99
Services and repairs, ...	$ 22 16	$2,228 64	$11,153 33
Meters and repairs, ...	9 45	848 46	8,835 05
Fines and penalties, ...	40 00	14 00	296 00
Off and on, ...	1 00	16 19	70 50
Seals, ...	. . .	. .	5 34
Miscellaneous accounts, . . .	14 65	266 58	6,243 33
Total sales accounts, ...	$87 26	$3,373 87	$26,603 55
Totals, 1906, ...	*$4,719 45	**$4,056 32	$286,790 54

* NOTE:—Of the total amount ($4,009.87) abated on account of " *Water rates—annual*," $2,712.21 represents *credits*—or draw-backs—*allowed for vacancies*, in accordance with Rule 12 of the Water Commissioners' rules and regulations, and for changes in rates; and $1,239.63 represents *advance rates* abated because of meters ordered set after bills are committed to the Collector.

** NOTE:—Of the total amount of $4,056.32 " *Uncollected Dec. 10, 1906*" (all actual *unpaid bills* at that date), the sum of $3,415.82 represents unpaid bills committed to the Collector December 1, 1906, on which the month allowed for payment had not yet expired, leaving $640.50 in unpaid bills *actually overdue*.

RECAPITULATION.

DIVISIONS.	Water Accounts.	Sales Accounts.	Totals.
Amounts collected, 1906, . . .	$260,186 99	$26,603 55	$286,790 54
Amounts uncollected, 1906, . .	682 45	3,373 87	4,056 32
Amounts abated, 1906, . . .	4,632 19	87 26	4,719 45
Amounts charged (including balances forwarded from previous year), 1906, ...	$265,501 63	$30,064 68	$295,566 31

The differences in the *total collection accounts* of 1905 and 1906 are shown as follows:—

COMPARISON : 1905-1906.

	1905.	1906.	DIFFERENCES. 1906.
Amounts collected,	$278,627 37	$286,790 54	+$8,163 17
Amounts uncollected,	5,600 92	4,056 32	—1,544 60
Amounts abated,	6,533 45	4,719 45	—1,814 00
Amounts charged,	$290,761 74	$295,566 31	+$4,804 57

INCOME—VALUE ACCOUNTS.

The amounts entered on the ledger during 1906 are shown as follows:—

USE OF WATER BY THE CITY.

(*Charged and credited as shown below.*)

Per Section 11, Chapter 32, Revised Ordinances, 1904.

Almshouse and annexed buildings, . . .		$390 50
Municipal building, ...		29 00
Fire department (buildings), ...	$638 00	
Fire department (hydrant service);—1,074 fire hydrants at $25 each, ...	26,850 00	
		27,488 00
Forestry department (buildings), . . .		14 00
Highway department (city yards, etc.), . .	$56 00	
Highway department (building purposes), .	98 65	
		154 65
Park department (fountains, ponds, and hose;—except Forest park), ...	$670 00	
Park department (park uses at Forest park), .	100 00	
		770 00
Police department (buildings), . . .		105 00
Scavenger department and Wayfarers' lodge, .		90 00
School department (buildings), . . .		11,948 92
Sewer department (building purposes), . .	$25 00	
Sewer department (flushing);—369 flush gates at $10 each, ...	3,690 00	
		3,715 00
Amount carried forward, . . .		$44,705 07

Amount carried forward,	$44,705 07
Watering streets department;—441,830 feet of streets sprinkled at 1½ cents per foot,	6,627 45
Watering tanks and drinking fountains,	690 00
Amount charged, 1906, (*on ledger only*) to "City of Springfield—Special Account,"	$52,022 52
(NOTE: — CALLED A RESOURCE ACCOUNT IN PARTIAL OFFSET TO LIABILITY ACCOUNTS OF CITY BONDS AND APPROPRIATIONS.)	
Water department (buildings), amount charged (*on ledger only*) to "Expense,"	138 17
Total credited, 1906, (*on ledger as gain account*), to "Water Rates—City Use,"	$52,160 69

RENTS OF REAL ESTATE.

(*Charged and credited as shown below.*)

House rental given employees in part payment for services, as follows:—		
Foreman's tenement, 49 Bridge street (charged to "Labor"),	$156 00	
Hostler's and driver's tenements, 37 and 49 Bridge street (charged to "Teams"),	312 00	
Watchman's tenement, 37 Bridge street (from December 1, 1905, to July 1, 1906,—vacant since)—(charged to "Night Service"),	91 00	
Keeper's house, Ludlow reservoir (charged to "Care and Repairs—Ludlow Supply"),	180 00	
Keeper's house, Van Horn reservoir (charged to "Care and Repairs—Van Horn Supply"),	100 00	
Total credited to "Rents,"		839 00
Total "INCOME—VALUE ACCOUNTS"—1906,		$52,999 69

Expenditures.—1906.

The following statements show the distribution of the *net cost* of the principal aggregated maintenance and construction accounts during 1906:—

MAINTENANCE.

MANAGEMENT AND REPAIRS.

Salaries (superintendence and accounting),	$9,891 21	
Inspection (salaries and expenses), . .	4,960 02	
Teams (balance undistributed), . .	2,187 35	
Automobile { 1906 running expense, $994.67, inventory depreciation, 308.00, }	1,302 67	
Tools and machines (net loss), . . .	999 39	
Stores and supplies (net loss), . . .	2 82	
Office furniture and fixtures (net loss), .	50 44	
Stationery and printing, ...	622 81	
Office account (janitor, supplies, etc.), .	645 73	
Heating apparatus (maintaining), . .	103 01	
Lighting apparatus (maintaining), . .	62 28	
Heat and light, ...	741 35	
Expense account (net), ...	495 21	
Expense, city departments (net), . .	100 75	
Telephone service, ...	305 92	
Off and on (services, etc.) (net), . .	311 35	
Refunds, ...	38 42	
Quality expense (flushing mains, getting samples, etc.), ...	25 80	
Night service (watchman, etc.), . .	1,034 86	
Meter testing, ...	172 19	
Petty maintenance (undistributable expense),	1,149 46	
		$25,203 04
Taxes (on reservoir property), . . .	$286 76	
Sanitation of supply, ...	1,579 47	
Care and repairs, Van Horn supply, . .	637 19	
" " Ludlow supply, . .	3,205 96	
" " Belchertown supply, .	1,089 61	
" " Ludlow main No.1 (24 in.),	22 76	
Amounts carried forward, . .	$6,821, 75	$25,203 04

Amounts brought forward,			$6,821 75	$25,203 04
Care and repairs,		Ludlow main No. 2 (36 in.),	30 90	
"	"	Distribution mains, cast-iron,	187 84	
"	"	Distribution mains, wrought-iron,	287 07	
"	"	Gates and valves,	605 38	
"	"	Hydrants,	1,466 93	
"	"	Drinking fountains,	67 47	
"	"	Meters (net),	129 08	
"	"	Services (net),	3,628 57*	
"	"	Private telephone lines,	38 25	
"	"	Indian Leap bridge,	34 55	
"	"	Chapin pond pumping station,	38 89	
"	"	Five Mile pond pumping station,	89 01	
"	"	Loon pond pumping station,	144 38	
				13,570 07
Repairs (real estate),		No. 37 Bridge street,	$5 44	
"	"	No. 43 Bridge street,	11 49	
"	"	No. 49 Bridge street,	23 18	
"	"	Stable, Wight avenue,	86 15	
"	"	Bldgs., Van Horn reservoir,	10 96	
"	"	Bldgs., Ludlow reservoir,	424 39	
				561 61
Total, 1906,				$39,334 72

---

* "Care and Repairs—Services" may be analyzed as follows:—

Acct. of corporation cocks, nips, leaks, etc.,	$139 26
" of putting on pump (small pressure),	32 92
" of putting new stops inside curb line,	1,622 99
" of relocating stops, etc.,	24 84
" of cutting off abandoned services,	65 00
" of repairs of stops, valves, pipe, etc.,	537 36
" of raising or lowering boxes, and repairing and cleaning same,	171 42
" of street and walk repairs,	21 59
" of transferring and changing services,	968 20
" of examining pipes for leaks, etc.,	45 49
Total,	$3,628 57

INTEREST ON BONDS.

$350,000 at 4 per cent., 12 months,	$14,000 00	
$245,000 at 3½ per cent., 6 months,*	4,287 50*	
$205,000 at 3½ per cent., 6 months,*	3,587 50*	
Total, 1906,		$21,875 00

---

* Forty $1,000 3½ per cent. bonds, due and paid April 1, 1906.

LUDLOW INTERMITTENT FILTER—OPERATING.

(*Engineer's Analysis.*)

Pay Rolls:—		
Superintendence,	$507 76	
Pumping,	2,108 47	
Labor,—		
Care of filter beds,	773 36	
Embankments,	75 54	
Laboratory,	14 53	
General,	501 93	
		$3,981 59
Coal, including hauling,		2,689 83
General expenses, including repairs,		237 72
Total, 1906,		$6,909 14

DISTRIBUTION MAINS—RENEWALS.

(*See Superintendent's report for detail of location, etc.*)

LOCALITY.	PIPE.	SIZE.	COST.
Armory street (acct. 1905),			$2 48
Byers street (see extensions, also),	1,421 feet,	10 inch,	1,205 00
Cherry lane,	91 "	1¼ "	44 41
Hampden street, I. O. (moving and relaying short line),			25 00
Pearl street (see extensions, also),	2,010 "	10 "	1,800 00
Total, 1906,			$3,076 89

CONSTRUCTION.

DISTRIBUTION MAINS—EXTENSIONS.

(*See Superintendent's report for detail of location, etc.*)

LOCALITY.	PIPE.	SIZE.	COST.
Bay path,	905 feet,	8 inch,	$1,125 81
Belmont place,	40 "	1½ "	7 52
Boston road,	156 "	6 "	149 75
Bryant street,	213 "	8 "	291 55
Byers street (see renewals, also),	1,421 "	10 "	1,619 02
Chester street,	8 "	1¼ "	62
Chestnut street, I. O.,	282 "	8 "	378 69
Clayton street,	420 "	6 "	355 66
Collins street,	41 "	6 "	59 22
Converse street,	457 "	6 "	375 39
Dexter street,	755 "	6 "	794 13
Dickinson street,	175 "	16 "	478 60
Donald street,	460 "	6 "	469 99
Elm street,	299 "	6 "	369 54
	45 "	2 "	
George street,	594 "	16 "	1,455 89
Hampden street, I. O.,	474 "	6 "	487 84
Holly street, I. O.,	24 "	6 "	22 71
Home street,	591 "	6 "	477 34
Horace street,	166 "	6 "	144 54
Howes street,	276 "	6 "	223 27
Knox street,	1,187 "	6 "	925 96
Ladd street,	42 "	6 "	64 13
Lester street,	517 "	6 "	421 86
Liberty street,	820 "	8 "	949 37
Logan street,	453 "	8 "	467 61
Longfellow terrace,	330 "	6 "	298 66
Maple street,	511 "	16 "	1,428 74
	12 "	2 "	
Massachusetts avenue,	168 "	8 "	313 50
Mill street,	962 "	16 "	3,126 89
	63 "	8 "	
Newman street,	(putting in tee),		4 91
North Main street,	328 feet	8 "	323 79
Pearl street (see renewals, also),	2,010 "	10 "	2,008 23
Pynchon street,	192 "	8 "	294 85
Amount carried forward,			$19,915 58

LOCALITY.	PIPE.	SIZE.	COST.
Amount brought forward,			$19,915 58
Randall avenue,	435 feet,	1½ inch,	69 25
Rowland avenue,	372 "	6 "	331 63
Smith street,	208 " 8 "	6 " 4 "	293 54
Sorrento avenue,	49 "	1½ "	11 20
Spencer avenue,	192 "	1½ "	35 36
Waltham avenue,	36 "	6 "	31 34
Westernview street,	416 "	6 "	434 26
White street,	552 " 277 " 22 "	8 " 12 " 1 "	1,265 85
Whittier avenue,	952 "	6 "	837 36
Windsor street,	716 "	6 "	783 48
York street avenue,	174 "	1¼ "	45 29
Total charged, 1906,			$24,054 14

LUDLOW INTERMITTENT FILTER.

(" Single filtration " plant constructed under City Council orders, approved Oct. 31, and Nov. 21, 1905.)

(*Engineer's Analysis.*)

Winter excavating,	$11,039 79
Main concrete drain,	1,646 21
Lateral drains,	2,425 03
Gravel screening,	1,944 69
Aerator,	848 63
Filter sand and embankments,	9,757 74
Cast-iron pipe for intake and delivery main,	3,023 15
Pumping machinery and boilers,	6,148 71
Steam fitting,	1,312 77
Foundations and concrete work,	829 68
Buildings,—(pump house and chemical laboratory),	1,890 04
Outlet flume,	1,477 71
Engineering, inspection and contingencies,	7,980 69
Total cost to December 1, 1906,	$50,324 84
Less preliminary expense (engineering, etc.), charged in 1905,	56 31
Cost charged in 1906,	$50,268 53

LITTLE RIVER—POSSIBLE SUPPLY.

(Surveys, plans, and estimates in connection with the petition to the Legislature authorizing the taking of Little river, and in accordance with City Council orders of October 9, October 30, and November 13, 1905.)

Engineering—services,	$2,306 11
Engineering—expenses,	219 44
Legislative petition—(hearings, legal expenses, etc.; not including engineers' services),	2,811 35
Water Commissioners' expenses—(for traveling and incidentals),	25 93
Water samples—(for analysis),	12 00
Gaging flow—(in co-operation with the United States Geological survey),	64 13
Total cost, 1906,	$5,438 96

LITTLE RIVER SUPPLY.

(Surveys, studies, and more complete estimates relating to the Little river supply after passage of Legislative act and pending acceptance of same,—per order of City Council, approved July 2, 1906.)

Engineering—services,	$3,253 16
Engineering—expenses,	412 36
Water Commissioners' expenses—(for traveling and incidentals),	116 95
Water samples—(for analysis),	16 40
Gaging flow—(in co-operation with United States Geological survey),	346 99
Real estate options, etc.,	250 00
Total cost, 1906,	$4,395 86

COST—SUMMARY OF LITTLE RIVER PROJECT.

1905—"Little River Investigation"; (April—May, 1905),		$1,500 00
1905—"Little River Possible Supply"; (July—Nov., 1905),	$524 66	
1906—"Little River Possible Supply"; (Dec., 1905—June, 1906),	5,438 96	5,963 62
1906—"Little River Supply"; (July—Nov., 1906),		4,395 86
Total cost to Dec. 10, 1906,		$11,859 48

Analyzed as follows:

Engineering—services,	$6,979 81	
Engineering—expenses,	983 00	
Legislative petition—(hearings, legal expenses, etc.; not including engineers' services),	2,832 80	
Water Commissioners' expenses—(for traveling and incidentals),	249 08	
Water samples—(for analysis),	49 90	
Gaging flow—(in co-operation with the U. S. Geological survey),	514 89	
Real estate options, etc.,	250 00	
Aggregate (paid from water works receipts),		$11,859 48

3.—MISCELLANEOUS STATEMENTS.

FINES AND PENALTIES.—1906.

The following statement shows the number of fines and penalties (of $2 each) due, charged, collected, abated, and uncollected during 1906, the number charged being also the number of premises ordered shut off to enforce payment of same:—

DIVISIONS.	For Unpaid Bills.		For Waste Unchecked.	Total Number.
	Due before 1906.	Due in 1906.		
Number uncollected, 1905 (forward),	16	. .	0	16
Number charged during 1906, . .	0	159	0	159
Total charged collector, 1906, .	16	159	0	175
Number collected during 1906, . .	2	146	0	148
Number abated during 1906, . .	9	11	0	20
Number uncollected, 1906 (forward),	5	2	0	7
Total, as above, ...	16	159	0	175

METERS AND INDICATORS.—1906.

(See note under table of same.)

Total number in use October 1, 1905, ...		4,477
Number of meters (on service pipes) added (net),	549	
Number of indicators (on elevators and motors) added (net), ...	7	
Net total number added to October 1, 1906, .		556
Total number in use October 1, 1906 (see table of same following),		5,033

Total quantity of metered water charged during 1906,	778,281,426 gallons.
Average quantity charged per meter or indicator,	154,635 gallons.
Total amount charged during 1906, ...	$118,657.97
Average amount charged per meter or indicator, . .	$23.57
Average rate charged per 1,000 gallons, ...	15.24+cents.

TABLE OF METERS AND INDICATORS.

(*In use October 1, 1906.*)

☞ **NOTE:—Only those meters are here included which show some registration charged for during the last quarter of the fiscal year, viz.: the 3 months preceding Oct. 1.**

KIND AND SIZE.	½″ or ⅝″	¾″	1″	1½″	2″	3″	4″	6″	Indicators.	Totals.
Meters.										
Ball & Fitts, Piston		1								1
Crown	1,039	606	75	19	23	4	3	2		1,771
Desper	2									2
Empire				2	3					5
Hersey (disc)	581	282	28	2	1					894
Hersey (rotary)	236	291	20	10	11		7	1		576
Nash	675	358	62	3		1				1,099
Thomson	8	8	2	1						19
Trident	280	107	17		1					405
Union Rotary	48	17	2	1	1					69
Worthington	3	2		2	2					9
										4,850
Indicators.										
Desper..........(for elevators)									158	183
Desper.........(" motors)									1	
Friction........(" elevators)									1	
Graves.........(" ")									5	
Ross............(" motors)									3	
Whitney.......(" ")									9	
Whittier......(" elevators)									5	
Worthington..(" ")									1	
Totals, 1906,	2,872	1,672	206	40	42	5	10	3	183	5,033

INSPECTION.—1906.

The distribution of work done under this head and time spent by the five inspectors on same, during the past year, will be seen by the usual tabulated statement as follows:—

CLASSIFICATIONS.	INSPECTORS.					Total Number of Days.
	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	
	Days.	Days.	Days.	Days.	Days.	
Reading and inspection of meters	107	130	120	160	144	661
Turning on and off $8 hose		2				2
Inspection of hose use—general		12	5	17	20	54
General or "house-to-house" inspection	7	32	77	66	88	270
Semi-annual and monthly inspection (billing)	89	44				133
Monthly inspection of vacancies reported			36			36
Special inspection (leaks, bills, and collections)	17	10	7	32	22	88
Special inspection (real estate sales)		9	38			47
Office work, etc	72	54	10	18	19	173
Sickness, etc	1					1
Total (293 working days in the year counting Saturdays as full days).	293	293	293	293	293	1,465

During the year 1,725 cases of leaking fixtures were found on unmetered premises, and the same recorded and the waste caused to be discontinued.

STATISTICS.—1906.

In the appendix to this report will be found the usual comparative statement showing a classification of consumers supplied at date (Appendix V.), together with a summary of statistics for the year (Appendix VI.), as recommended by the New England Water Works Association.

Respectfully submitted,

A. R. HATHAWAY,

Water Registrar.

SPRINGFIELD, MASS., December 31, 1906.

BOARD OF WATER COMMISSIONERS, December 31, 1906.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

SUPERINTENDENT'S REPORT.

To the Board of Water Commissioners:—

Gentlemen:—I hereby submit the thirty-third annual report of the Superintendent, for the year ending November 30, 1906.

The amount of pipe laid, the number of gates and fire hydrants set, the amount of pipe discontinued, and the number of gates and fire hydrants taken out are shown as follows:—

MAIN PIPE, GATES AND HYDRANTS ADDED.

NUMBER.	Extensions.	Renewals.	Private.	Totals.
Feet of Pipe laid—High service,	**15,028**	**3,525**	**0**	**18,553**
Feet of Pipe laid—Low service,	**1,999**	**0**	**0**	**1,999**
Totals laid, 1906,	**17,027**	**3,525**	**0**	**20,552**
Added to tables (account previous years),	**0**	**0**	**135**	**135**
Totals added, 1906,	**17,027**	**3,525**	**135**	**20,687**
Gates set—High service,	**107**	**3**	**29**	**139**
Gates set—Low service,	**10**	**0**	**1**	**11**
Totals set, 1906,	**117**	**3**	**30**	**150**
Added to tables (account previous years),	**0**	**0**	**1**	**1**
Totals added, 1906,	**117**	**3**	**31**	**151**
Fire Hydrants set—High service,	**39**	**14**	**0**	**53**
Fire Hydrants set—Low service,	**3**	**0**	**0**	**3**
Totals set, 1906,	**42**	**14**	**0**	**56**
Added to tables (account previous years),	**0**	**0**	**0**	**0**
Totals added, 1906,	**42**	**14**	**0**	**56**

MAIN PIPE, GATES AND HYDRANTS TAKEN OUT OR ABANDONED.

NUMBER.	TOTALS.
Feet of Pipe—High service,	7,315
Feet of Pipe—Low service,	1,937
Totals, 1906,	9,252
Gates—High service,	12
Gates—Low service,	2
Totals, 1906,	14
Fire Hydrants—High service,	14
Fire Hydrants—Low service,	3
Totals, 1906,	17

There are now in use 156.84 miles of supply and distribution mains, a net addition of 2.17 miles the past season.

Four hundred and ninety-two service taps have been made, a net addition of 229 in use. The total number now connected with the system is 11,175.

RAINFALL.

The following shows the amount of rain and melted snow in inches, as registered at Belchertown, Ludlow, the U. S. Armory, Cobble Mountain, and the City Engineer's office in this city, during the year ending November 30, 1906:—

MONTHS.	Belchertown.	Ludlow Reservoir.	U. S. Armory.	Cobble Mountain.	City Engineer's Office.
	Inches.	Inches.	Inches.	Inches.	Inches.
December, 1905, . .	2.56	3.15	3.36	3.03	3.25
January, 1906, . . .	2.67	2.58	1.88	2.45	2.33
February, 1906, . .	2.46	2.01	2.87	1.40	1.94
March, 1906, . . .	5.28	5.20	5.22	5.61	3.86
April, 1906, . . .	2.99	2.91	3.32	4.26	3.44
May, 1906, ...	6.16	5.22	4.25	4.81	4.89
June, 1906, ...	6.81	3.57	5.15	2.69	4.20
July, 1906, ...	6.51	7.68	3.45	4.86	4.12
August, 1906, . . .	4.43	3.43	2.49	3.74	3.05
September, 1906, . .	3.04	3.72	3.02	3.12	3.31
October, 1906, . . .	5.49	6.14	6.30	4.27	6.15
November, 1906, . .	2.36	1.38	2.32	3.41	2.10
Totals, ...	50.76	46.99	43.63	43.65	42.64
Mean, ...	4.23	3.92	3.64	3.64	3.55

CONSTRUCTION AND MAINTENANCE.

The construction work has included more pipe laid for the improvement of the distribution system than in previous years. The more important portion of this work was the laying of 2,242 feet of 16″ pipe in George, Maple, Mill and Dickinson streets from Pine to Orange streets, to re-enforce the Forest Park section and replacing 2″ pipe in George and 4″ in Maple streets. Also, 3,431 feet of 10″ pipe was laid in Pearl and Byers streets, replacing 4″ cast-iron in Pearl street and 6″ cement-lined in Byers street, and six 6″ hydrants were set in Pearl street and four 6″ hydrants in Byers street,—there having previously been only four 4″ hydrants in Pearl street and none in Byers street.

The total amount of pipe laid of different sizes (including renewals) is 20,552 feet at a cost of $27,131.03, and the following are the streets in some portion of which main pipe has been laid in accordance with orders given by your Board from time to time:—

North Main street, Donald street, Howes street, Sorrento avenue, Massachusetts avenue, Horace street, Liberty street, Whittier avenue, Spencer avenue, Randall avenue, Knox street, Windsor street, Pynchon street, Elm street, White street, Dickinson street, Smith street, Mill street, Waltham avenue, Boston road, Maple street, Cherry lane, George street, Dexter street, Converse street, York Street avenue, Chester street, Belmont place, Clayton street, Rowland avenue, Home street, Byers street, Pearl street, Chestnut street, I. O., Hampden street, I. O., Bay Path, Lester street, Bryant street, Logan street, Longfellow terrace, Holly street, I. O., and Westernview street.

The following have also been ordered and will be carried over to next year: Chestnut street, I. O., from Hampden to Worcester,—about 385 feet of 8″ in place of 4″; Worcester street, I. O.,—completing pipe between Chestnut and Myrtle streets, about 285 feet of 6″; King street, city,—completing connections across the Highland Division of the New York, New Haven & Hartford railroad, from Logan street to Wilbraham avenue, about 350 feet of 8″; Parkside avenue, north from Carew street,—about 900 feet of 6″; Berkshire street, I. O., east of Oak street,—about 85 feet of 6″; Albany street (so-called),—between the Boston & Albany railroad and the Highland division of the New York, New Haven & Hartford railroad,—in which was ordered about 1500 feet of 8″ pipe early in the season, and since held awaiting certain business arrangements. Lawndale street, about 225 feet of 6″ pipe, has also been held awaiting proper guaranty. The pipe work and changes during the year will be shown separately in tables in the appendix to this report, as will also the amount of pipe which has been abandoned, aggregating 9,252 feet of different sizes. The latter includes 1,083 feet of 6″ cast-iron and 459 feet of cement-lined low service pipe in Ferry street, from which nearly all of the cast-iron was taken up and relaid in Knox street, all services in Ferry street having been connected to the high service main.

For service pipes we have made 492 new taps, as before stated, which include 212 renewals, making an addition of 280. Fifty-one taps have been abandoned, leaving a net total of 229. We have set during the year 456 meters of different sizes as follows: 188 Trident, 172 Nash, 68 Hersey Disc, 27 Crown and 1 Empire; and there are about seventy more ordered, but not to be set until the houses are completed. We have taken out, tested, cleaned, repaired and reset about 720 meters, showing that it has not been an idle year in meter work.

Our maintenance work has followed the same old routine, namely,—putting stops in the walks in anticipation of paving or re-surfacing, changing service pipe connections from low to high service, repairing leaky hydrants, leaks in main pipes and services, etc.

There have been two bad leaks in the old 8″ cement-lined low service main in Wason avenue near North Main street, and one in the 8″ low service cement-lined in North Main street near Wason avenue; and, in view of the fact that all the cement-lined mains in the lower sections of the city are probably to be replaced in the near future, I recommend that *these* be done among the first, and as soon as the weather will permit in the spring, abandoning the low service cement-lined main in North Main street and extending the high service from Grace street to Wason avenue and thence through Wason avenue to Fisk avenue, where it will connect with the cast-iron low service pipe already laid in Plainfield street, and which should then be changed to high service.

Twenty-two leaks in main pipes have been repaired, an average of 0.14+ per mile of main pipe in use. The following shows the kind and size of pipe in which they occurred:—

LEAKS.

KIND AND SIZE OF PIPE.	1¼″	2″	3″	4″	6″	8″	10″	12″	16″	20″	24″	30″	36″	Totals.
Cement-lined and wrought-iron, .	0	1	3	3	1	5	0	0	0	0	1	0	0	14
Cast-iron, . . .	0	0	0	1	1	0	1	2	1	0	0	1	1	8
Totals, . . .	0	1	3	4	2	5	1	2	1	0	1	1	1	22

The cost of these repairs has been $528.57, an average of $24.02+ per leak.

The hydrants have had their usual inspection. All have been operated at least twice during the year and thoroughly flushed out, especially where located on dead ends, and nearly all have been painted. The use of hydrants for other purposes than that of extinguishing fire ought to be strictly prohibited. It has now been so far reduced as to be allowed only to the Street and Sewer Departments for flushing sewers, washing the asphalt and wood paving, and other work in connection with the construction, maintenance, and repairs of streets and sewers. I have tried to get a regular report each week from the Street and Sewer Departments of each and every hydrant used by their men and for what purpose, and have been fairly successful in so doing. I hope to get fuller reports this coming year. I believe, however, that the Street Department should put in some street washers for use in the washing of the asphalt and wood paving, and thus not be obliged to use the hydrants for that purpose, and I suggest that the matter be taken up with them and find out if such arrangement cannot be made.

No additions or improvements have been made in the Bridge-street real estate this year, and only a minimum amount of repairs have been necessary, and the property is in good condition. Such expenses as have been incurred will appear in detail in the Registrar's report.

INVENTORY.

The appraisal of stock, tools, supplies, fixtures, etc., in the Superintendent's division, on hand December 1, 1906, amounted to $19,933.57, distributed to sundry accounts as shown in the Registrar's report.

STATISTICS.

In the appendix to this report will be found the usual tables showing the size and location of pipe laid, gates and hydrants set, pipe, gates and hydrants taken out, also location of fountains, fire reservoirs, watering tanks, fire hydrants, standpipes, and main and distribution pipe.

Respectfully submitted,

ALFRED E. MARTIN,
Chief Superintendent.

SPRINGFIELD, MASS., December 31, 1906.

BOARD OF WATER COMMISSSIONERS, December 31, 1906.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

SANITARY ENGINEER'S REPORT.

December 28, 1906.

To the Board of Water Commissioners, Springfield, Mass.

Gentlemen:—No more fitting opening to a report on the sanitary condition of a municipal water supply could be made than it is possible to make this year on the Springfield system. The intermittent filter which has been constructed during this past year has made it possible to furnish to the water takers at all times a safe water, while in years past it has been necessary during the summer months when the water of the Ludlow reservoir is undrinkable to furnish water direct from the watersheds without storage. The utmost care is required to keep such water in a sanitary condition. While we feel that the conditions along the water courses are properly cared for and as clean as an inhabited region can be kept, nevertheless, the safeguard of storage is far more certain.

With the development of the knowledge of the transmission of such diseases as typhoid fever and the early recognition of the possibilities of its being carried by water, the necessity for stringent regulations and careful supervision of watersheds becomes at once apparent, and laws have been passed which allow cities to quite effectively safeguard water supplies. As these have been matters which have affected the public to a great extent, there are few who do not understand the relations which a clean water supply bears to the health of the community.

In the many cities in this and foreign countries in which the water supplies have been protected to a remarkable extent by storage or filtration, and in many cases by both storage and filtration, thus very largely eliminating the chance of carrying the diseases which may be thus water borne, the persistence of typhoid fever in the community becomes at once apparent. With conditions unsatisfactory in water supplies it has been very easy to throw the entire blame in that direction. It must not be forgotten, however, that there are many other preventable causes constantly active and that to these attention must at once be turned. Springfield is entering into such a period. During the past fourteen months, all of the water which has been delivered to the city of Springfield has been subject to long storage and during the summer months to filtration in addition to this storage. With the development of the Little River supply, where the filtration of the water from a sparsely settled region will render pollution well-nigh impossible, water may be practically eliminated as a factor in the typhoid death or morbidity rate.

RESERVOIRS.

During the past year, conditions about the reservoirs have been still farther improved, and the shores have been kept in good condition. Large numbers of the old stumps which have been brought up by the ice have been drawn out and burned. For a number of years the custom has been during the summer months, when the water in the reservoir reached its worst state by reason of the growths of anabæna, to divert the brook water around the reservoir and directly into the small basin, which supplies the mains of the city. This has necessitated the use during August and September of a certain amount of water, drawn directly from these brooks without any storage, except that afforded by the small basin of one or two days. For this reason it has been necessary to maintain the strictest sanitary rules over the entire watershed.

Since October, 1905, no water has reached the city unless it has been subjected to long periods of storage in the Ludlow reservoir. This in itself is a very effective prevention from water borne diseases. I believe, however, that it would be inadvisable to relax any of the sanitary regulations enforced over the watershed, inasmuch as these give an added protection.

The amount of water in storage was lowest in December, 1905, when there remained 1200 million gallons. During March the amount reached its maximum, when there was on one day over 1800 million gallons. The surplus in the Knight and Gold reservoir, which is usually held to re-enforce the low flow of the brooks during the summer months was not this summer needed, but the water was let down during the dry months in order to keep up the flow of the stream.

The Van Horn reservoir has been so regulated that it has been practically at high-water mark through the entire year. This reservoir, which now has no watershed of its own but is supplied entirely with Ludlow water, is during the summer probably the poorest water, as far as taste and odor are concerned, that is supplied to the city. This is due to the fact that the filtered water after having been stored for one or two days in the small Ludlow basin is again exposed to the sun's rays for a long period in the Van Horn reservoir and, as a consequence, a marked growth was noticeable during the summer. This, however, was not as marked as it has been for many seasons past, and my belief is that it will furnish water of fairly good quality as long as necessity keeps it in service. With the new system it will be possible to eliminate this reservoir from further use.

The pumps at Five Mile, Chapin and Loon ponds were put in readiness to be started on short notice early in the year, and a patrol was maintained to preserve the sanitary quality of the water from late in May until September 10th. This was done in order that an auxiliary supply of water would at all times be in readiness, should accident or unforeseen circumstances render the water from the filter unavailable.

Before the time when it might have been necessary to use the ponds, the State Board of Health was requested to examine these sources and report as to their purity. This they did in a report under date of August 2, 1906, after a careful inspection by their Chief Engineer, Mr. X. H. Goodnough. The water in these ponds is of exceptionally good quality for an auxiliary supply, inasmuch, as when the ponds are at all lowered, the inflow of water is from the ground, and in consequence, the best type of stored water is available at the point of intake.

It was not necessary at any time to start any of the pumps or to use any water from these sources, but I would recommend that they be kept in such condition that they could be used on short notice in an emergency. Their patrol for thirty days before possible use would be sufficient to guarantee the sanitary quality of their waters.

LUDLOW INTERMITTENT FILTER.

The intermittent filter was completed and ready for operation July 6, 1906. This filter, which was constructed at a cost of about $12,500 per acre, is four acres in extent and consists of a bed of sand five feet in depth, overlying a system of tile underdrains which delivers the water via a large main concrete conduit to a small basin at the Ludlow gate-house.

During the past summer the filter was operated during all of the portion of the year when the water would not otherwise have been usable in the reservoir. There were but two interruptions in its operation, due to breaks in the pumping machinery, only one of which, however, necessitated the use of any but filtered water in the city. In a plant of this description it would hardly be advisable to duplicate the pumping machinery, but it would be of considerable value if all of the working parts of the steam turbine and pump should be duplicated, so that its repair in case of accident would be a matter of but a few hours rather than a few days.

Mr. Henry E. Mead was elected by your Board to operate the filter. The vacancy caused by his resignation, about July 1st, was filled by Mr. George H. Shaw, formerly Sanitary Engineer of the Hartford Water Department. The laboratory, fitted up more especially under the direction of Mr. Mead, was operated by Mr. Shaw and records of the work done by the filter were kept. During the first part of its operation, other matters claimed the attention so much that only a few analyses could be made, but later, quite a complete record was made of its operation. These analyses are published in full as Appendix XIX.

While the results as stated may seem to some somewhat technical in their nature, they may be stated simply in a few words as follows. The color of the water, which is the measure of the vegetable stain or colored substances actually dissolved in the water, was decreased by the filter on an average of 36%. The amount of organic matter was measured by the ammonias and oxygen consumed. The per cent removed as indicated by these analyses was, for the Ammonia, 95%; Albuminoid Ammonia, 34%; Oxygen consumed, 26%. Other determinations, such as carbon dioxide, iron, etc., were made to indicate to the operator the condition of the reservoir water in its relation to the vegetable growths and a record of these were kept for this reason. The tastes and odors as recorded are what would be detected when the water was heated. The filter at all times removed all taste and odor in the water as far as could be detected by drinking. The reservoir this past summer was by no means at its worst, but it was for a considerable period in such a condition that it could not have been satisfactorily used direct as a water supply, and had not the filter been in operation it would have been necessary to have pumped from the pond supplies.

CONSUMPTION.

No records have been kept during the past year on the Venturi meter, so that the actual consumption of water in the city at the present time is not a matter of definite knowledge. The records of the pressure in the city have, however, been kept and these, compared with the earlier Venturi meter records, give a fair indication of the amount used. It is my belief that the consumption does not exceed the figure used last year, or about 130 gallons per capita. This, however, includes all the leakage from the present low service reservoir. With the addition of the meters now ordered and the more stringent regulations as to fire pipes and other large services and the elimination of the Van Horn reservoir, there will doubtless be a farther reduction in the amount used per capita.

STATE BOARD OF HEALTH ANALYSES OF WATER.

In addition to the analyses of the filtered water taken in our own laboratory, the State Board of Health has made frequent analyses of the sources of our present and proposed supplies. These analyses are given in full as Appendix XX.

LITTLE RIVER.

During the construction of the filter at Ludlow, very little work was done in the field on the new supply. On the completion of this work, however, parties were placed in the field to gain such additional information as would enable a more definite estimate on certain features of the construction. Special study was given to location of dams and reservoirs.

After Mr. Hazen's report of October 5, 1906, work has been pushed on that portion of the new supply which would be commenced first.

The gaging station, which was established in conjunction with the United States Geological Survey under the direction of Mr. H. K. Barrows, has been maintained throughout the year, and during the early part of August a weir was constructed about 1000 feet below the current meter station, so that a careful record of the flow may be obtained.

With the diversion of the Little River water into the Springfield distribution system, there will of necessity have to be some changes in the older pipes, and the need of feeding mains to the various portions of the city has been for some time apparent. On the completion of the work of Mr. R. D. Chase on this subject, the study was continued under my direction, and when the plans now being prepared are finished the department will have a complete plan of all the pipes in the city, and a schedule of those which, because of the abolishing of the low service system and the increase in pressure due to the new supply, will have to be removed, extended or enlarged.

This report is submitted in response to your request of December 5, 1906.

Respectfully submitted,

ELBERT E. LOCHRIDGE,

Sanitary Engineer.

BOARD OF WATER COMMISSIONERS, December 31, 1906.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

APPENDIX.

APPENDIX I.

COMPARATIVE STATEMENT OF WATER RECEIPTS SINCE 1885.

(*On annual basis of twelve months.*)

Year.	Water Rates Charged. (*During the year, only.*)		Water Rates Collected.*	
	Totals.	Increase.	Totals.	Increase.
1885	$93,421 60	. . .	$90,848 05	. . .
1886	100,537 77	$7,116 17	97,298 78	$6,450 73
1887	108,140 94	7,603 17	105,451 52	8,152 74
1888	115,146 35	7,005 41	112,581 21	7,129 69
1889	126,220 72	11,074 37	122,541 52	9,960 31
1890**	133,553 28**	7,332 56	129,913 27**	7,371 75
1891	140,604 85	7,051 57	136,985 11	7,071 84
1892	150,515 67	9,910 82	146,349 09	9,363 98
1893	164,894 65	14,378 98	160,936 78	14,587 69
1894	167,376 11	2,481 46	162,769 71	1,832 93
1895	182,357 49	14,981 38	178,421 15	15,651 44
1896	194,069 28	11,711 79	189,373 75	10,952 60
1897	196,818 72	2,749 44	192,132 58	2,758 83
1898	209,183 12	12,364 40	201,710 66	9,578 08
1899	220,673 14	11,490 02	213,061 24	11,350 58
1900	225,798 96	5,125 82	218,741 57	5,680 33
1901	233,227 98	7,429 02	218,815 05	73 48†
1902	231,594 98	‡ { *Decrease* 1,633 00 }	223,903 08	5,088 03
1903	245,358 59	13,763 61	238,673 13	14,970 05
1904	249,779 77	4,421 18	244,767 77	6,094 64
1905	259,133 06	9,353 29	252,747 50	7,979 73
1906	263,746 17	§ 4,613 11	260,186 99	7,439 49

---

* For amounts abated and uncollected, see detail in Registrar's report.

** Amounts for 1890 are estimated at $20,000.00 less than actual totals for that year, which include fifteen months water rates, instead of twelve, due to change of time in rendering the semi-annual bills.

† The small increase in "Water Rates Collected" in 1901, as compared with similar annual increase shown in previous years (and in contrast with the usual average increase in "Water Rates Charged" during 1901) is due to the *non-payment by the city* of the usual annual charge (under a then existing arrangement) for water for street-sprinkling purposes, amounting to $5,799.11; the same being included therefore under the *first* division of the foregoing comparative statement but *not* under the *second*.

‡ The *decrease* in "Water Rates Charged" in 1902 from the total charged in 1901 (instead of the usual annual *increase* as in previous years) is due to the fact that no charge is made or collected for water for sprinkling streets, the same now being included in the *book credits* for city use of water, from and including the year 1901, as per order of the City Council in 1902, and revised ordinances of 1904.

§ The small increase in the "Water Rates Charged" in 1906 over the previous year is undoubtedly due to the increased use of meters by the domestic class of consumers, while the "Water Rates Collected" increase is partially due to closer collections and less abatements of rates to the Collector during the year, as will be seen in the Water Registrar's report of collection details.

APPENDIX II.

SERVICE TAPS AND SUPPLY AND DISTRIBUTION MAINS SINCE 1884.

Year.	Service Taps.		Distribution Mains.		Supply and Distribution Mains in Use. (Miles.)
	Total Number.	Net Increase.	Extensions. (Feet.)	Cost of Extensions.	
1885	4,237	224	10,014	$11,235 33	75 01
1886	4,519	282	18,993	14,158 71	78 65
1887	4,819	300	17,244	14,600 36	81 55
1888	5,147	328	13,877	14,038 56	84 97
1889	5,497	350	29,059	26,418 94	91 11
1890	5,770	273	9,962	7,833 06	92 28
1891	6,181	411	14,927	10,396 00	94 86
1892	6,633	452	24,853	16,253 21	98 63
1893	7,000	367	25,079	17,090 71	102 97
1894	7,482	482	20,280	13,491 16	117 21*
1895	7,900	418	32,368	25,302 47	123 65
1896	8,298	398	23,521	21,018 62	127 80
1897	8,721	423	39,108	22,349 41	134 71
1898	9,070	349	28,810	16,042 36	140 08
1899	9,456	386	20,851	10,069 22	143 21
1900	9,764	308	9,880	6,362 20	144 69
1901	10,034	270	8,668	5,174 62	146 22
1902	10,221	187	5,353	3,060 71	147 34
1903	10,471	250	16,425	13,147 42	150 44
1904	10,641	170	9,767	6,163 18	152 20
1905	10,946	305	20,309	17,290 22	154 67
1906	11,175	229	17,027	24,054 14	156 84

* The total of 117.21 miles of main and distribution pipe at end of 1894 includes 10.86 miles of "Ludlow Supply Main No. 2," laid in 1893 and 1894.

APPENDIX III.

LEGISLATIVE ACT FOR LITTLE RIVER SUPPLY.

(Accepted and Adopted June 19, 1906.)

CITY OF SPRINGFIELD

In the Year One Thousand Nine Hundred and Six.

AN ORDINANCE

ACCEPTING AND ADOPTING CHAPTER 317 OF THE ACTS OF THE GENERAL COURT OF 1906, ENTITLED "AN ACT TO AUTHORIZE THE CITY OF SPRINGFIELD TO INCREASE ITS WATER SUPPLY."

Be it ordained by the City Council of the City of Springfield, as follows:—

Section 1. The act of the General Court of this Commonwealth, entitled, "An Act to Authorize the City of Springfield to Increase its Water Supply," approved April 25, 1906, is hereby accepted and adopted, as follows:—

(CHAPTER 317.)

AN ACT TO AUTHORIZE THE CITY OF SPRINGFIELD TO INCREASE ITS WATER SUPPLY.

Be it enacted, etc., as follows:—

Section 1. The city of Springfield, acting by its board of water commissioners, when said board shall thereto be authorized by the city council, for the purpose of increasing its water supply, may take, hold, store and convey to, into and through its system of water works the waters, or such part thereof as may from time to time be necessary for said purpose, of the Westfield Little river and its tributaries, the place of the diversion of the waters to be on said Westfield Little river not less than four hundred feet above mean sea level; and may use the waters so taken, in connection with and through the medium of its present system of water works or otherwise, for any and all purposes for which said city is or may be authorized to use water; and may take and hold, by purchase or otherwise, any lands, rights of way, easements or other rights of property which said board may deem necessary for any of the purposes of this act, and for conveying the same to any part of said city and to any place which is or, under authority of law, may be supplied with water by said city, or for carrying out any of the powers and duties conferred by this act.

SECTION 2. The city shall construct and maintain a suitable filter or filters, and may construct and maintain on lands so taken or purchased dams, reservoirs, buildings and other works or structures which said board may deem necessary for the taking, storing, filtering, conveying, controlling, measuring and distributing said waters, or for any other purpose of this act, and may construct, lay down and carry such canals, tunnels, pipes, telephone wires or other works under, through or over any lands, rivers or other water courses, railroads, street railways and public or private ways, and over or upon any public bridges now existing or hereafter built, as may be necessary or convenient for such purposes, and may contract with the public authorities owning or controlling any public bridge or bridges hereafter built for adaptation thereof to the use herein provided, on such terms as may be agreed upon; and for the purposes of this act may open or dig up any public or private ways in said city, or in any town in which any portion of said work is located, under the direction of the selectmen thereof, or, in the case of state highways, under the direction of the highway commission, in such manner as to cause no unreasonable hindrance to public travel, and shall hold such town harmless from all liability to damages from any cause resulting from such acts of said city.

SECTION 3. If said city shall so construct any reservoir under authority of this act as to flow an existing public way, it shall raise the same to such grade as will leave it reasonably safe and convenient for travel, or shall build in place of any part of such way so flowed such other reasonable and suitable way, which shall thereafter be a public way, with all necessary fences and culverts, as and in such manner as shall be mutually agreed upon between its board of water commissioners and the selectmen of the town, or if they cannot agree thereon, then as and in such manner as shall be determined by the county commissioners of the county of Hampden, upon application of either party to them, and said county commissioners are hereby authorized and directed to adjudicate upon the same.

SECTION 4. Said board of water commissioners may enter upon and use the lands of others, and shall use such lands in a reasonable manner, with regard to the interests of the owners thereof, and, so far as practicable, shall heed all reasonable requests made by such owners; and in general may do any other act or thing necessary or proper for carrying out the powers and duties conferred upon it by this act.

SECTION 5. Before beginning the construction of any works for storing, filtering or conveying water from Westfield Little river to the city of Springfield, or making changes in works which may have previously been constructed, the said city shall from time to time submit its proposed plans to the state board of health for its approval, and the said city shall construct the works in general accordance with the plans so approved.

SECTION 6. Within ninety days after taking any waters or water rights, lands, rights of way, easements or property for any of the purposes of this act said city shall file and cause to be recorded in the registry of deeds for the county in which the same are situated a description thereof, signed by the board of water commissioners, which in the case of land taken shall be as certain as is required in a common conveyance of land, stating that the same are taken for the purposes of this act, and shall file with such statement a map or plan, drawn to scale, of the lands taken and described in such statement; and after such taking of any property the board shall notify the owner or owners thereof, if known to them, and on written request of any such owner or owners to the board, within one year after such taking, shall within thirty days after the receipt of such request furnish said owner or owners with a reasonably accurate plan or description in writing of the land or other property so taken.

SECTION 7. The said city shall pay all legal damages suffered by any person in his property by the taking of any property as herein provided, or by any other act occasioning legal damage done by it under the authority hereof; but no damages shall be recoverable for the taking of any water until such water is actually diverted. All such damages shall be ascertained and recovered in the manner provided by law when land is taken for the laying out of highways, and all proceedings for the recovery of such damages shall be brought within two years after the right of action accrues. In case a claimant for damages shall so elect application may be made by him to the superior court for the county in which the property is located, for the appointment of a commission to determine the amount of damages suffered by such claimant, and thereupon, such notice to said city having been given as said court may order, the court shall appoint a commission consisting of three competent and disinterested persons, who shall determine the amount of such damages and report the same to the court; which report when finally approved by the court shall be binding on all the parties. The compensation of said commissioners shall be fixed by the court and paid in the same manner as are the fees of auditors appointed by the court. Whether or not costs shall be allowed to the prevailing party, and in what amount, shall be in the discretion of said court.

SECTION 8. Said city may, for the purpose of paying the necessary expenses and liabilities incurred under the provisions of this act, issue from time to time coupon or registered bonds or notes to an amount not exceeding in the aggregate two million dollars. Such bonds or notes shall bear on their face the words, City of Springfield, Westfield Little River Water Loan; shall be payable at the expiration of periods not exceeding thirty years from the dates of issue; shall bear interest payable semi-annually at a rate not exceeding four per cent per annum, and shall be signed by the treasurer and countersigned by the mayor of said city. Said city may, by its mayor and treasurer, sell such securities for the purposes of this act, upon such terms and conditions as they may deem proper: *provided,* that such securities shall not be sold for less than the par value thereof.

SECTION 9. Said city shall at the time of authorizing said loan provide for the payment thereof in such annual proportionate payments, beginning not less than three years after the first issue of said bonds or notes, as will extinguish the same within the time prescribed by this act, and when a vote to that effect has been passed by the city council a sum which with the surplus of income derived from the water rates will be sufficient to pay the annual expense of operating it water works and the interest as it accrues on bonds or notes issued by said city under the provisions of this act, and to make such payments on the principal as may be required under the provisions of this act, shall, without further vote, be assessed by the assessors of said city in each year thereafter, in the same manner in which other taxes are assessed, under the provisions of section thirty-seven of chapter twelve of the Revised Laws, until the debt incurred by the loan herein authorized is extinguished. The income of the water works shall be applied to defraying all operating expenses, interest charges and payments on the principal as they accrue upon any bonds or notes issued under the authority of this act or of previous acts relating to the water supply of the city. If there should be a net surplus remaining after providing for the aforesaid charges it may be used for such new construction as the water commissioners, with the approval of the city council, may determine, and, in case a surplus should remain after payment for such new construction, the water rates shall be reduced proportionately.

SECTION 10. Whenever, in the opinion of the state board of health, the town of Westfield shall have developed the watershed or sources of Tilliston brook, so far as may reasonably be done, the city of Springfield shall furnish the town of Westfield such additional quantity of water as may be required by said town, for the purposes for which the town is authorized to furnish water to its inhabitants, water so furnished to be taken from the pipes of the city of Springfield at a place thereon in said town of Westfield where they may readily be connected with the pipes of said town, the town paying therefor at the same rate per million gallons furnished as its water then costs the said town at the point of taking, exclusive of the cost of pipes for the distribution of water in the streets of the town, and the cost of its so-called Montgomery system; but the said town shall not be entitled to a greater proportion of the water from the Westfield Little river watershed, as developed by the city of Springfield, than the ratio which its population bears to the combined population of the city of Springfield and the town of Westfield.

SECTION 11. In the event of a dispute arising as to the cost of water furnished as aforesaid the superior court for the county of

Hampden shall upon petition appoint one or more commissioners to hear the parties and to report to the court the facts, or the facts with the evidence, which report when finally approved by the court shall be binding upon the parties. The compensation of said commissioner or commissioners shall be fixed by the court and paid in the same manner as are the fees of auditors appointed by the court. Whether or not costs shall be allowed to the prevailing party and in what amount shall be within the discretion of said court.

SECTION 12. The city of Springfield may supply water to the town of West Springfield and to the town of Agawam, upon such terms as may be agreed upon between said city and said towns, respectively.

SECTION 13. After the actual taking of any real estate in the towns of Blandford or Granville by the city of Springfield under authority of this act the same may be valued by the assessors of said towns, respectively, for the purposes of taxation, on the basis of the average of the assessed values of such real estate for the three years last preceding the acquisition thereof; and said city shall pay to said towns taxes at the valuations so determined.

SECTION 14. In the event that public convenience and necessity shall require said towns of Blandford and Granville, or either of them, to build and maintain more highway or highways, bridge or bridges, by reason of the actual taking of any real estate therein by the said city, under authority of this act, and if the same shall be so built and maintained, then the said city shall reimburse said towns of Blandford and Granville, respectively, for any reasonable expenditure incurred by them respectively for such building and maintenance.

SECTION 15. In the event that said towns, or either of them, and said city are unable to agree at any time upon the necessity for such building and maintenance of more highway or highways, bridge or bridges, or upon what sum or sums of money should constitute reasonable expenditure for the maintenance thereof, or if said city shall at any time be dissatisfied with the valuation for the purposes of taxation of any real estate as aforesaid actually taken by it in said town or towns, or with the taxes assessed thereon, a petition may be made to said superior court, whereupon the same proceedings shall be had as are provided for by section eleven of this act.

SECTION 16. If the city of Springfield shall actually take, under and by virtue of this act, the water supply comprehended thereby, and if the state board of health shall hereafter determine, upon hearing the parties, that the town of Westfield by reason of such taking will be compelled sooner than it otherwise would, to erect or create another and a different sewage disposal or treatment plant, and if as a result of such determination said town shall so erect or create another and different sewage disposal or treatment plant, then said city shall pay to said town, annually, interest on the cost that said board of health shall decide was reasonably necessary therefor, including therein the interest on the cost of such lands as said board shall deem to be reasonably necessary therefor, and also such cost of the maintenance and depreciation thereof as said board shall determine was reasonable, and for such a period of time as said board shall determine that said erection or creation was sooner rendered necessary by such taking by said city. The rate of interest so to be paid for such period shall be the same as said town shall pay from year to year during said period upon money borrowed by it. In case either the town of Westfield or the city of Springfield shall be dissatisfied with the decision of the state board of health upon any of the matters contained in this section, the party so dissatisfied may petition to said superior court, whereupon the same proceedings shall be had as provided in section eleven of this act.

SECTION 17. All acts and parts of acts inconsistent herewith are hereby repealed.

SECTION 18. This act shall take effect upon its acceptance by the city council of said city voting thereon within one year from the date of passage. Unless said city within two years after the acceptance of this act in the manner herein provided shall have begun work hereunder, all the rights herein granted to said city shall cease and this act shall become void. (*Approved April 25, 1906.*)

Approved June 19, 1906.

Attest: E. A. NEWELL, *City Clerk.*

BECKET

TIS

rable
veys
the
from
s re-
evel-

part-
meet
tive
der-

sum
in-
ater
of a
will
t is

our
the
able
the

sue
on-
the
our

of
the
to
na
re
mi
su
pe
du
to
th
co
su
vi

he

ci
o
th
u
a

APPENDIX IV.

PLANS AND ESTIMATED COST OF LITTLE RIVER SUPPLY.

REPORT OF WATER BOARD.

To the City Council of the City of Springfield, Mass.

GENTLEMEN:—Complying with an order passed by your Honorable Body under date of June 25, 1906, we have made additional surveys and studies and have requested Mr. Allen Hazen to report to us on the cost of the works proposed to develop an additional water supply from the Little river. His report is attached to and made a part of this report. Plans were prepared showing the various features of this development, which are also made a part of this report.

It may be safely stated that the net revenue of the Water Department with the present rates will provide a sufficient amount to meet the necessary interest and payments on the present and the prospective debt, and also leave an amount that will carry out at least a considerable portion of the work contemplated in the distribution system.

The estimate which appears in Mr. Hazen's report is for a sum slightly less than that of the original report to you. The plan includes the filtration with covered masonry filters of the entire water supply from the Little river. It also includes the construction of a distributing reservoir on Proven mountain near the city which will maintain the higher pressure proposed very much better than it is possible to have it maintained through a long line of pipe.

According to the provisions of the act of the legislature, your Board of Water Commissioners have no authority to undertake the construction of this supply until duly authorized by your Honorable Body. The issue of bonds by the City Treasurer, provided for in the act, must also be authorized by your Body.

We recommend that the City Treasurer be authorized to issue bonds for the full amount to be sold as needed during progress of construction. We further recommend that the things needful for the carrying forward of this work, under the act, be authorized by your Honorable Body.

Respectfully submitted,

EVERETT E. STONE,
CHARLES H. BENNETT,
FRANCKE W. DICKINSON.
Board of Water Commissioners.

Springfield, Mass., October 15, 1906.

REPORT OF ALLEN HAZEN.

NEW YORK, October 5, 1906.

To the Honorable, the Board of Water Commissioners, Springfield, Mass.

GENTLEMEN:—In accordance with your instructions I present herewith a general plan for securing an additional water supply to be obtained from the Little river. This plan is shown on two sheets, as follows:—

Sheet No. 1.—General plan showing proposed source and manner of utilizing it.

Sheet No. 2.—Cobble mountain to Peterson's; showing general location of proposed structures.

The plan follows in general that originally suggested in my report to you of May 1, 1905, and still more closely the plan presented to the Legislature when the Act authorizing the work was obtained, and which plan is now in your possession.

The structures which it is proposed to build as the first installment of the complete development, with an estimate of the cost of installing them, are as follows:—

PRELIMINARY ESTIMATE OF WORKS FOR THE FIRST DEVELOPMENT OF LITTLE RIVER WATER SUPPLY.

Storage reservoir at Peeble's farm upon Borden brook, or other equivalent location, holding at least 500 million gallons, and as much more up to 1,000 million gallons as can be readily secured,..................................	$200,000
Intake dam, with crest about 62 feet above the present bed of the stream, at El. 510, with an available capacity of 60 million gallons, with conduit, gatehouse, waste outlets, etc., complete,....................................	116,000
Tunnel, 4,800 feet, at $30 per foot,.........................	144,000
Purification plant, consisting of settling basin at Peterson's; 6 standard covered masonry filters, each one-half acre in area; works for diverting brook; sand washing apparatus and water supply for same, complete,.......	300,000
7.2 miles of 38″ steel pipe, 5/16″ thick, lock-bar or riveted, to Proven mountain reservoir, at $7.50 per foot,...........	285,000
Proven mountain reservoir, flow-line at about El. 405, one-half of the full reservoir built now, holding at least 15 million gallons,....................................	225,000
4.5 miles of 42″ steel pipe, 3/8″ thick, lock-bar or riveted, Proven mountain to Connecticut river, at $9 per foot,..	214,000

)00
)00

)00
)00

00

ve
pe
he
ro-

pe
tes
tes
ere

ple
or

River crossing; about 1,200 feet: 2 lines of 30″ cast-iron pipe, 1.4″ thick; 470 pounds per foot, with gates, complete,	$65,000
Land, water rights, right of way, etc.,	330,000
	$1,879,000
Engineering and contingencies, 15%,	282,000
Total estimated cost of first works for the development of Little river supply, but including land, water rights, intake dam and tunnel to increase the supply to the full capacity of the watershed,	$2,161,000

This plan and estimate of cost are presented at this time to give yôu a clear and sufficient idea of the project and to define the scope and character of the proposed works. Plans in greater detail of the various parts will be prepared from time to time as the work progresses.

The general plan does not show the precise location of the pipe line and other structures. There are in many cases alternate routes and locations offering advantages. The selection of the exact routes and locations cannot advantageously be made at this time and there is no occasion for attempting to do it.

The plan as outlined seems to be in general the most feasible method of development, and the works as outlined are sufficient for immediate requirements.

Respectfully submitted,

ALLEN HAZEN.

APPENDIX V.

COMPARATIVE STATEMENT,

Showing the Classes of Consumers and the Number of Each Class Supplied by the Aqueduct Company in 1864, and by the City in 1874, 1880, 1890, 1900, 1905, and 1906.

CLASSES.	1864.	1874.	1880.	1890.	1900.	1905.	1906.
Bakeries	......	......	8	15	36	42	43
Banks	2	9	12	15	16	14	11
Barber Shops	2	14	3	30	85	102	108
Baths	......	439	829	2,654	8,777	11,456	12,196
Beer Pumps	......	......	......	......	67	80	81
Boarding Houses	......	33	55	97	77	88	92
Breweries	......	......	2	2	2	3	3
Cemeteries	......	......	1	5	6	6	6
Churches (from 1895)	......	......	......	......	39	52	53
Churches, Halls, and Public Buildings (to 1895)	2	12	14	60	......	......	......
Clubs, Societies, etc. (from 1897)	......	......	......	......	34	37	36
Dyehouses and Bleacheries	2	2	3	3	4	4	3
Elevators	......	......	15	96	154	197	210
Families	1,288	3,637	4,893	8,511	15,179	17,534	18,170
Fish Tanks and Aquariums	......	......	......	8	10	10	11
Foundries	4	5	6	12	13	12	12
Fountains (private)	......	......	12	18	9	10	7
Fountains (public)	......	......	......	10	14	16	16
Gas Works	......	......	1	1	1	1	1
Greenhouses	2	3	9	8	24	28	28
Halls (from 1895)	......	......	......	......	53	67	71
Hose	......	......	885	1,857	3,827	4,808	4,847
Hotels	7	12	15	20	19	20	20
Laundries (public)	......	6	6	25	41	49	36
Manufactories	6	50	80	78	79	82	84
Markets	8	31	54	60	105	119	120
Motors	......	......	13	44	76	100	98
Offices and Rooms	......	88	521	1,088	1,834	2,406	2,472
Parks (from 1895)	......	......	......	......	13	16	16
Photographers	......	6	9	11	11	15	15
Printers and Publishers	......	......	......	25	25	34	32
Public Buildings and Institutions (from 1895)	......	......	......	......	27	28	29
Public Institutions (to 1895)	......	......	......	6	......	......	......
Railroads	......	......	3	4	4	4	4
Restaurants	5	14	17	24	49	67	72
Saloons	9	34	32	45	44	53	53
Schools (total to 1897)	......	12	15	33	......	......	......
Schools (private) (from 1897)	......	......	......	......	14	13	12
Schools (public) (from 1897)	......	......	......	......	32	32	33
Shops	18	51	88	189	333	383	392
Slaughter Houses	......	......	......	1	......	......	......
Stables (private)	82	274	379	704	1,260	1,361	1,374
Stables (public)	6	14	23	30	31	26	25
Steam Engines	......	......	48	74	116	124	125
Steam Heaters	......	......	32	104	806	988	1,055
Stores	125	225	320	359	693	825	838
Street Railways (from 1895)	......	......	......	......	1	1	1
Urinals	......	131	296	435	560	601	609
Water Closets	......	1,192	2,402	6,792	16,958	20,992	22,144
Watering Tanks and Drinking Fountains	......	......	......	12	14	15	15

APPENDIX VI.

SUMMARY OF STATISTICS

For the Year Ending November 30, 1906.

In form recommended by the New England Water Works Association.

SPRINGFIELD WATER WORKS,

City of Springfield, Hampden County, Massachusetts.

(Including Ludlow,—adjoining town supplied.)

GENERAL STATISTICS.

Population of Springfield by state census of 1905,	73,540
Population of Ludlow by state census of 1905,	3,881
Estimated population of Springfield for 1906,	76,280
Estimated population of Ludlow for 1906,	3,950
Dates of construction:—	
Original works in city, by private company,	1864
(Sale of same to city, for $238,296.00, in 1872.)	
Works at Ludlow, Mass.,	1873–1874–1875
Works at Belchertown, Mass.,	1890–1891
Additional main from Ludlow reservoir,	1893–1894
By whom owned,	City of Springfield

Sources of supply : —

High pressure—from impounding reservoirs in Ludlow and Belchertown, fed by natural streams, springs and surface water.

Low pressure—from Van Horn distributing reservoir in the city, fed by the high pressure supply from Ludlow.

(Aggregate storage capacity, about 1,500,000,000 gallons.)

Mode of supply,	by gravity.

Auxiliary supply (emergency), by pumping from Chapin, Five Mile, and Loon ponds.

Total pumpage during emergency season of 1906,	none.

FINANCIAL STATISTICS.

(NOTE.—All expenditures, including ordinary extensions of mains, etc., are made from general receipts—from water rates, sales, etc.— but the *amount* of such expenditure for *extension of mains* is annually determined by the City Council.)

RECEIPTS (*credited*).		
Balance brought forward:—		
(*a*) From ordinary (maintenance) receipts (see disposition of same),		....
Inventory of material, tools, etc., on hand Dec. 1, 1905,		$19,249 10
(*b*) From extraordinary receipts (bonds, etc.),		....
Total (forward from 1905),		$19,249 10
From Water Rates:—		
A. Fixture rates,	$141,609 52	
B. Meter rates,	118,577 47	
C. Total water rates from consumers (*income-cash*),		260,186 99
D. For fire hydrants, 1,074 @ $25. each,	$26,850 00*	
E. For public fountains, etc. (in parks),	670 00*	
F. For street watering,	6,627 45*	
G. For public buildings and departments (including $138.17 for water department buildings,—charged to "Operation" account under expenditures),	13,509 59*	
H. For miscellaneous public uses:—		
(*a*) Flushing sewers, 369 flush gates @ $10. each,	3,690 00*	
(*b*) Watering tanks and drinking fountains,	690 00*	
(*c*) Building purposes (sewers and streets),	123 65*	
I. General appropriation (for water),	....	
J. Total from municipal departments (*income-value*),		*52,160 69
K. *From tax levy* (for extensions, etc.),		....
L. *From bond issue* (for construction, etc.),		....

EXPENDITURES (*charged*).		
Water Works Maintenance:—		
AA. Operation (management and repairs),		$39,334 72
BB. Special:—		
(*a*) Distribution mains, renewals,	$3,076 89	
(*b*) Engineering,	3,735 38	
(*c*) Distribution system study,	1,529 18	
(*d*) Ludlow intermittent filter,—operating,	6,909 14	
(*e*) Miscellaneous,	122 22	
		15,372 81
CC. *Total maintenance charged 1906* (see analysis),		$54,707 53
DD. Interest on bonds,		21,875 00
(CC+DD=$76,582.53.)		
EE. Payment of bonds (all made from sinking fund),		....
FF. Sinking fund (see "MM. BALANCE"),		....
Water Works Construction:—		
GG. Extension of mains,	$24,054 14	
HH. Extension of services (paid for by consumers;—see "M" and "LL."),	....	
II. Extension of meters (paid for by consumers;—see "M" and "LL."),	....	
JJ. Special:—		
(*a*) Ludlow intermittent filter, $50,268 53		
(*b*) Little river supply, 9,834 82		
(*c*) Westfield river possible supply, 1,299 10		
(*d*) Miscellaneous, 455 42		
	61,857 87	
Total construction charged 1906,	$85,912 01	

M. *From other sources*:—

(*a*) From consumers for services, meters, repairs, sales, penalties, etc. (*income-cash*), ... $26,603 55

(*b*) From water department employees for house rentals allowed in part payment for services,—charged to "Operation" accounts under expenditures (*income-value*), ... 839 00*

27,442 55

Analysis of Receipts—1906.

From "Income—*cash*" accounts, ...	$286,790 54
From "Income—*value*" accounts, ...	52,999 69*
Total income (or earnings), ...	$339,790 23

Analysis of Expenditures—1906.

Charged To	From Income—*Cash*		From Income—*Value*		Total Charged
Interest, ...	$21,875 00	+	....	=	$21,875 00
Maintenance, ...	53,730 36	+	$977 17*	=	54,707 53
Construction, ...	85,156 99	+	....	=	85,156 99
"Sales,"	22,201 92	+	....	=	22,201 92
Net totals, ...	$182,964 27	+	$977 17*	=	$183,941 44
Inventory, ...	2,950 31	(Surplus material, etc.)			
Total, ...	$185,914 58	(Approved bills and pay rolls.)			

N. Total credited (including inventory forward), ... $359,039 33

Less amounts *credited 1906* to construction accounts of previous years, for sales, etc., ... 755 02

KK. *Net Construction charged 1906* (see analysis), 85,156 99

Water Works "Sales":—

LL. Unclassified expenses:—
Cost of labor and material charged to consumers, for services, meters, repairs, sales, etc. (see "M.," "HH." and "II.") (see analysis), ... 22,201 92

Net total expenditures *charged 1906* (including interest) (see analysis), ... $183,941 44

MM. **Balance**:—

(*aa*) Ordinary (divided as follows):—

Surplus *cash* receipts for sinking fund (see "FF"), ... $100,875 96

Estimated *value* municipal use of water (charged to "City of Springfield—Special Account"), ... 52,022 52

Inventory of material, tools, etc., on hand Dec. 1, 1906, ... 22,199 41

$175,097 89

(*bb*) Extraordinary, ...

Total balance, ... 175,097 89

N. Total (in balance with receipts), ... $359,039 33

---

* No *cash* income derived, but estimated amounts charged and credited in ledger and annual report, as per city ordinance.

Disposition of balance:—*cash* surplus paid into sinking fund by city treasurer; *value* municipal use of water held as a book asset, to offset water bond payments and appropriations by the municipality; inventory of material, tools, etc., carried forward.

O. Net cost of works to date, ... $2,399,480 66
P. Bonded debt at date, ... $555,000 00
Q. Value of sinking fund at date, ... $151,255 09
R. Average rate of interest, 3.81+per cent.

STATISTICS OF CONSUMPTION OF WATER.

1.	Total population at date (estimated;—Springfield, 76,280, and Ludlow, 3,950),	80,230
2.	Estimated population on lines of pipe (Springfield and Ludlow), ...	78,000
3.	Estimated population supplied (Springfield and Ludlow), ...	77,500
4.	Total consumption for the year (estimated),	3,832,500,000 gallons.
5.	Passed through meters (quantity charged), .	778,281,426 gallons.
6.	Percentage of consumption metered (estimated,=5÷4), ...	20.3 + per cent.
7.	Average daily consumption (estimated), .	10,500,000 gallons.
8.	Gallons per day to each inhabitant (estimated,=7÷1), ...	131
9.	Gallons per day to each consumer (estimated,=7÷3), ...	135
10.	Gallons per day to each tap (estimated,=7÷ "Distribution System" 22) . . .	939
11.	Cost of supplying water, per million gallons, figured on total maintenance (item CC),	$14 27
12.	Total cost of supplying water, per million gallons, figured on total maintenance+interest on bonds, ...	$19 98

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1. Kind of pipe used;—wrought-iron cement-lined (formerly used by private aqueduct company and by city);—wrought-iron—for small and temporary mains,—and cast-iron (used by city at present).
2. Sizes;—from one to 36 inches.

3.	Extended during year (added to pipe table, including all changes, etc.), . . .	20,687 feet.
4.	Discontinued during year (deducted from pipe table, including all changes, etc.), . .	9,252 feet.
5.	Total now in use, ...	156.84 miles.
6.	Cost of repairs per mile, ...	$3.37+
7.	Number of leaks per mile (total leaks=22),	0.14+
8.	Length of pipes less than 4 inches in diameter,	7.04+miles.
9.	Number of hydrants added during year (public=39, and private=0) (net), . .	39

10.	Number of hydrants (public=1,074, and private=100), now in use, ...		1,174
11.	Number of stop gates added during year (public and private) (net), ...		137
12.	Number of stop gates now in use, . .		2,377
13.	Number of stop gates smaller than 4 inch, .		469
14.	Number of blow-offs (air valves), ...		90
15.	Range of pressure on mains at center,— .		
	(*a*) High service, ...		90 to 120 pounds.
	(*b*) Low service, ...		30 to 35 pounds.

SERVICES.

16.	Kind of pipe used;—lead (formerly used by private aqueduct company);—cement-lined wrought-iron, and tarred wrought-iron (formerly used by city);—galvanized wrought-iron, and cast iron (used by city at present).		
17.	Sizes from ½ to 8 inches.		
18.	Extended during year (in feet).	NOTE.—Services paid for entirely by the consumers, and no special statistics kept of them.	
19.	Discontinued during year (in feet).		
20.	Total now in use (in miles).		
21.	Number of service taps added during year (net),		229
22.	Number of service taps now in use, . .		11,175
23.	Average length of service,	(See note under 18, 19, 20.)	
24.	Average cost of service,		
25.	Number of meters added (including indicators) (net), ...		556
	(*a*) Meters added, ...	549	
	(*b*) Indicators added, ...	7	
26.	Number of meters now in use (including indicators), ...		5,033
	(*a*) Meters (on supply pipes), . . .	4,850	
	(*b*) Indicators (on elevators and motors),	183	
27.	Percentage of services metered (26÷22), .	45.03+ per cent.	
28.	Percentage of receipts from metered water (B÷C), ...	45.57+ per cent.	
29.	Number of motors and elevators added (net),		11
	(*a*) Motors added, 2; discontinued, 4; .	=— 2	
	(*b*) Elevators added, 15; discontinued, 2; .	=+13	
30.	Number of motors and elevators now in use, .		308
	(*a*) Motors, ...	98	
	(*b*) Elevators, ...	210	

APPENDIX VII.

WATER PIPE LAID AND TAKEN OUT IN 1906,

INCLUDING ALL CHANGES IN PIPE TABLES.

LOCATION.	Size in Inches.	Material.	LENGTH IN FEET.		
			High Service.	Low Service.	Totals.
Pipe Laid by Private Parties.					
Palmer avenue, additional to "east from 6″ (P) (S. R.-5, 695)"—(correction of evident error in measurement in 1889)........................	2	Wrought-iron.	135	....	135
Total wrought-iron laid by private parties....................			135	....	135
Pipe Laid by City.					
White street, south from 12″ at Priscilla place (see S. R.-15,334)..........	1	Wrought-iron.	22	....	22
Cherry lane, north from Mill street (replacing 62 ft. of 1¼″,—location changed),..............	1¼	"	91	...	
Chester street, extension (see S. R.-15,312),..............................	1¼	"	8	....	
York street avenue, south from York street,..............................	1¼	"	....	174	273
Belmont place, extension (see S. R.-15,317),..............................	1½	"	40	....	
Randall avenue, north from 4″ (see S. R.-15,121),..........................	1½	"	435	....	
Sorrento avenue, extension (see S. R.-15,048),....	1½	"	49	....	
Spencer avenue, extension (see S. R.-15,105-238),..........................	1½	"	192	....	716
Elm street (beyond railroad), west from 6″ (replacing 1¼″ private)....	2	"	....	45	
Maple street, at George (connecting old 4″ to new 16″;—see also table transfer under latter),................	2	"	12	....	57
Total wrought-iron laid by city................................			849	219	1,068
HYDRANTS, sundry streets :—					
Main street, N. W. cor. Wilcox,..	4	Cast-iron.	8	....	
Main street, N. E. cor. William,..	4	"	8	....	
Melrose street,......................	4	"	5	....	
Union street, S. W. cor. Main,....	4	"	....	8	
Smith street, at Dorne (between old 4″ and new 6″),.........	4	"	8	....	37
Birnie avenue, from south of Greenwich street to near Medford (south) (cost borne by Spgfld. Metal Body Co. as agreed),........................	6	"	....	338	
Boston road, east from Barber street,	6	"	156	....	
Clayton street, west from Plainfield,..	6	"	....	420	
Collins street, completion to Logan,..	6	"	41	....	

WATER PIPE LAID, ETC., IN 1906—CONTINUED.

LOCATION.	Size in Inches.	Material.	LENGTH IN FEET.		
			High Service.	Low Service.	Totals.
Converse street, north from Sumner avenue,	6	Cast-iron.	457	....	
Dexter street (replacing 2″ private),	6	"	755	....	
Donald street, extension, No. Main to Birnie avenue,	6	"	460	....	
Elm street, Water to beyond railroad (replacing 1¼″ private),	6	"	....	299	
Hampden street, I. O., west from Chestnut (completion to Holly),	6	"	474	....	
Holly street, I. O., extension across Hampden,	6	"	24	....	
Home street, west from Liberty,	6	"	591	....	
Horace street, north from Dickinson,	6	"	166	....	
Howes street, south from Sumner ave.,	6	"	276	....	
HYDRANTS, sundry streets:—					
Bay path,	6	"	19	....	
Bryant street,	6	"	5	....	
Byers street,	6	"	35	....	
Chestnut street, I. O.,	6	"	12	....	
Clayton street,	6	"	....	4	
Converse street,	6	"	3	....	
Dexter street,	6	"	14	....	
Donald street,	6	"	7	....	
Elm street,	6	"	....	7	
Hampden street, I. O.,	6	"	10	....	
Home street,	6	"	5	....	
Knox street,	6	"	4	....	
Lester street,	6	"	4	....	
Liberty street,	6	"	11	....	
Longfellow terrace,	6	"	4	....	
Lyman st. (replacing 9 ft. of 4″),	6	"	7	....	
Maple street,	6	"	6	....	
Margaret street,	6	"	21	....	
Massachusetts avenue,	6	"	8	....	
Mill street,	6	"	13	....	
Pearl st., (replacing 21 ft. of 4″),	6	"	31	...	
Pynchon street,	6	"	4	....	
Rowland avenue,	6	"	....	4	
Smith street,	6	"	4	....	
Waltham avenue,	6	"	6	....	
Westernview street,	6	"	10	....	
White street,	6	"	6	....	
Whittier avenue,	6	"	10	....	
Windsor street,	6	"	14	....	
Knox street (replacing 2″ and 1″),	6	"	1,187	....	
Ladd street, completion to Logan,	6	"	42	....	
Lester st., north from Sumner ave.,	6	"	517	....	
Longfellow terrace, east from Whittier avenue,	6	"	330	....	
Rowland avenue, west from Plainfield street,	6	"	....	372	
Smith street, at Maple (replacing 4″),	6	"	4	....	
Smith street, Dorne to Knox,	6	"	204	....	
Waltham avenue, extension,	6	"	36	....	
Westernview street, extension to Forest Park avenue,	6	"	416	....	
Whittier ave., extension to Belmont,	6	"	952	....	
Windsor street (replacing 2″),	6	"	716	....	9,521

WATER PIPE LAID, ETC., IN 1906—CONTINUED.

LOCATION.	Size in Inches.	Material.	LENGTH IN FEET.		
			High Service.	Low Service.	Totals.
Bay path, north from Berkshire st.,..	8	Cast-iron.	905	....	
Bryant st., south from Sumner ave.,..	8	"	213	....	
Chestnut street, I. O., Hampden to Berkshire,..........	8	"	282	....	
Liberty street, Carew to Home,......	8	"	820	....	
Logan street, Alden to Ladd, ...	8	"	453	....	
Massachusetts avenue, extension from 6″ to No. 40,..........	8	"	168	....	
Mill street, west from Maple.........	8	"	63	....	
North Main street, north from Wason avenue,....	8	"	....	328	
Pynchon street, extension,......... ...	8	"	192	....	
White street, extension to former schoolhouse (No. 382),..........	8	"	552	....	3,976
Byers street (replacing 6″ cement-lined),..........	10	"	1,421	....	
Pearl street, Byers to Federal (replacing 4″),..........	10	"	2,010	....	3,431
White street, Sumner avenue to Priscilla place..........	12	"	277	....	277
Dickinson street, Mill to Orange,....	16	"	175	....	
George street, Maple to Pine (replacing 2″),..........	16	"	594	....	
Maple street, George to Mill (replacing 480 ft. of 4″),..........	16	"	511	....	
Mill street, Dickinson to Maple (replacing 70 ft. of 1¼″), ...	16	"	962	....	2,242
Total cast-iron laid by city, ...			17,704	1,780	19,484
Total wrought-iron laid by city (forward),..........			849	219	1,068
Total wrought-iron laid by private parties (forward),..........			135	....	135
Total amount added, 1906,..........			18,688	1,999	20,687
Pipe Taken Out or Abandoned.					
Knox street, south from 2″ private (replaced by 6″),..........	1	Wrought-iron.	68	....	68
Cherry lane, at Mill street (replaced by same, location changed), ...	1¼	"	62	....	
Elm street, west from Water (P) (replaced by 6″ and 2″),..........	1¼	"	....	395	
Mill street, west from Cherry lane (replaced by 16″),..........	1¼	"	70	....	527
Dexter street, George to Knox (P) (replaced by 6″),..........	2	"	719	....	
George street, south from Pine (P) (replaced by 16″),..........	2	"	354	....	
George street, from private 2″ to Maple (replaced by 16″; see also table transfer),..........	2	"	272	....	
Knox street, Dexter to south of Smith (P) (replaced by 6″),..........	2	"	674	....	
Ridgewood terrace, north from Mulberry street (P),..........	2	"	286	....	

WATER PIPE LAID, ETC., IN 1906—CONCLUDED.

LOCATION.	Size in Inches.	Material.	LENGTH IN FEET.		
			High Service.	Low Service.	Totals.
Windsor street, east from Pine (replaced by 6″),	2	Wrought-iron.	679	....	2,984
Ferry street, east from 6″ (at Main),	4	Cement-lined.	....	459	
HYDRANTS, sundry streets:—					
Lyman street (replaced by 6″),	4	Cast-iron.	9	....	
Pearl street (replaced by 6″),	4	"	21	....	
Maple street, George to Mill (replaced by 16″),	4	Wrought-iron.	480	....	
Pearl street, Byers to Federal (replaced by 10″),	4	Cast-iron.	2,150	....	
Smith street, at Maple (4 ft. replaced by 6″),	4	"	19	....	3,138
Byers street, State to Pearl (replaced by 10″ cast-iron),	6	Cement-lined.	1,452	....	
Ferry street, from 4″ to Chestnut,	6	Cast-iron.	....	1,083	2,535
Total amount taken out or abandoned, 1906			7,315	1,937	9,252
Net addition to tables, 1906			11,373	62	11,435
Changes and Transfers in Pipe Tables.					
George street, from private 2″ to Maple,—transferred to Maple street (connecting),	2	Wrought-iron.	64	....	64
Total amount of changes and transfers in pipe tables, 1906 (not affecting totals),			64	....	64

☞ Names of public streets changed by order of City Council, and of private streets changed by mutual agreement, and now changed in pipe tables, as follows:—

"Ashby street," to "Barber street."
"Becket street," to "Birnie avenue."
"Belmont court," to "Belmont place."
"Bowles street," (east and west) to "Pease street."
"Central street avenue," to "Central street court."
"Chapin street," to "Mason street."
"Clayton avenue," to "Clantoy street."
"Douglas street," (east from No. Main) to "Dover street."
"Pomona avenue," to "Pomona street."
"South street," to "Main street."

APPENDIX VIII.

MAIN AND DISTRIBUTION PIPE

IN USE DECEMBER 1, 1906.

[*Pipe Belonging to Private Parties Marked* (*P*).]

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Abbe ave., west from Plainfield st	6	....	....	....	955	
do. Plainfield st. to Fisk ave	6	....	....	....	719	1,674
Acushnet ave., east from Main st	6	....	....	....	1,080	1,080
Adams st., Main to Ashmun	8	....	....	....	1,038	1,038
Alden st., Hancock to Wilbraham ave	6	....	....	2,253	....	
do. Wilbraham ave. to Hickory st	8	....	....	437	....	2,690
Alderman st., Dickinson to nr. Sorrento ave	6	....	....	992	....	992
Alert st., north from Worthington	2	....	231	....	....	231
Alexander st	6	....	....	....	762	762
Alfred st	6	....	....	551	....	551
Allen ave., no. from Allen st. (P)(S. R.–9,209).	2	200	....	....	....	
do. north from private pipe	2	86	....	....	....	286
Allen st., Mill to White	8	....	....	930	....	
do. White to Plumtree road	6	....	....	4,487	....	5,417
Allendale st	6	....	....	....	707	707
Amaron st	1½	485	....	....	....	485
Amherst st	6	....	....	1,339	....	1,339
Andrew st., north from State	4	....	....	1,405	....	1,405
Arbor st.,	6	....	....	....	457	457
Arch st., North Main to east line of Conn. River R. R. location	6	....	....	....	965	965
do. west from North Main	6	....	....	51	....	51
Armory st., Federal to Worthington	4	....	....	936	....	
do. Worthington to Summer	8	....	....	840	....	
do. Summer to north of N. E. R. R. tracks (west of abutments)	8	....	....	130	....	
do. from north of N. E. R. R. tracks to Van Horn reservoir	8	....	....	5,385	....	
do. Van Horn reservoir to Springfield st.	12	....	....	2,431	....	9,722
Armory st. ave., east from Armory st	6	....	...	520	....	520
Armory st. court, south from Armory st. ave.	6	....	....	266	....	266
Ashley st	6	....	....	1,427	....	1,427
Ashmun st., Central to Adams	8	....	....	....	269	
do. south from Adams (see S. R.–13,315)	1¼	....	53	....	....	322
Atwater terrace, west from Rimmon ave	6	....	....	660	....	660
Auburn st	6	....	....	....	887	887
do. west from Main	6	....	....	90	....	90
Avon place	4	....	....	715	....	715
do. at Maple st	6	....	....	....	57	
do. east from 6″ at Maple st	4	....	380	....	....	
do. east from cement-lined	4	....	....	....	416	853
Bancroft st., North Main to 8″ at Chestnut.	6	....	....	....	1,511	
do. at Chestnut	8	....	....	....	4	1,515
do. east from North Main	6	....	....	21	....	21
Banks place, west from Water st.,	6	....	....	....	229	229

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Barber st., south from Boston road........	6	....	....	458	....	458
Bay path, north from Berkshire st........	8	....	...	905	....	905
Bay st., St. James ave. to Thompson st.....	8	1,275	....	....	....	
do. Thompson to Oak Grove cemetery...	8	....	....	3,793	....	5,068
Bay st. ave., so. from Bay st. (see S.R.-11,664)	1¼	150	....	....	....	150
Beacon st., Eastern ave. to Colton st........	6	....	....	374	....	
do. east from Colton.....................	2	129	....	....	....	503
Beauchamp st., east from Armory..........	6	....	....	506	....	506
Beaudry st., I. O., south from Main	6	....	....	498	....	
do. south from 6'' (P) (S. R.-10,768)......	1	310	....	....	....	808
Beaumont st..............	6	....	....	726	....	726
Beech st.......................................	6	....	....	560	....	560
Beechwood ave., Sumner to Spruceland....	6	....	....	565	....	565
Belgrade place, west from Walnut st........	6	....	....	225	....	
do. west from 6''	4	....	....	150	....	375
Bellevue avenue.............................	8	....	....	1,645	....	1,645
Belmont ave., Fort Pleasant to Sumner. ..	8	....	....	5,383	....	
do. Sumner to Belvidere.	8	....	....	3,123	....	8,506
Belmont place, south from Belmont ave. (see S.R.-12,367-12,368-15,317)	1¼	247	....	....	...	247
Belvidere ave., south from Belmont.......	6	....	....	659	....	659
Bemis place, east from Chestnut st..........	2	....	350	....	....	350
Benton ave., east from Benton st...........	6	....	....	15	....	
do. east from 6''..........................	2	451	....	....	....	466
Benton st., State to 6''......................	4	....	....	1,175	....	
do. from 4'' to Wilbraham road...........	6	....	....	418	....	1,593
Berendo ave..............	6	....	....	419	....	419
Berkeley st., Princeton to Monmouth......	6	....	....	493	....	493
Berkshire st., I. O., west from Myrtle (see Ludlow supply, "Main No. 1")....	24	—	....	....	....	
do. Myrtle to Oak.........................	6	....	....	703	....	
do. east from Oak.........................	6	....	....	288	....	991
Beverly st	6	....	....	252	....	252
Bevier st., east from Armory.....	6	....	....	617	....	617
Birnie ave., Grace st. to Walter............	2	.. .	283	....	...	
do. south from Walter st................	6	....	....	....	163	
do. Douglas st. to Thomas	6	....	....	....	302	
do. near Medford st. (south) to Arch....	6	....	....	....	1,255	2,008
do. Wason to Grace st	8	....	....	726	....	
do. at Grace st. (south)..........	8	....	....	12	....	
do. Alfred st. to Douglas	6	....	....	304	...	
do. south from Douglas st...............	6	....	....	176	....	
do. Portland st. to Medford..............	8	....	....	249	....	
do. south from Medford st.	8	....	....	87	....	
do. north from Greenwich st............	6	....	....	48	....	1,602
Bliss st., Main to Water......................	6	....	....	....	1,001	1,001
do. Water to railroad	6	....	....	280	....	
do. railroad to Mechanics row............	2	93	....	....	....	373
Bloomfield st., west from Earl...............	6	....	....	265	....	
do. west from Pasadena ave..	6	....	....	22	....	287
Bond pl., so. from Bridge st. (P) (S. R.-6,033)	1¼	....	144	....	....	144
do.	6	....	....	191	...	191
Bond st., Main to Chestnut..................	6	....	....	....	1,673	1,673
do. east from Main.......	6	....	....	18	....	
do. east from 6''...............	4	....	....	183	....	201
Boston ave., south from Boston road (P) (S R.-8,171)..............................	1¼	172	....	....	....	172

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Boston & Maine R. R., east line of location to east line of Plainfield st. (under tracks, connecting Arch and Washburn sts)	6	....	....	....	226	226
Boston road, east from Berkshire st. (see S. R.-12,314)	6	....	....	130	...	
do. Jasper st. to Barber	6	....	....	921	....	
do. east from Barber st	6	....	....	156	....	
do. west from Parker st	6	....	....	1,518	....	2,725
Bowdoin st., St. James ave. to Worth'ton st.	4	....	....	1,202	....	
do. Worthington to Ingersoll grove	6	....	....	833	....	2,035
Bowles st., Pease to McKnight	2	455	....	....	....	
do. McKnight to Bay	4	....	....	811	....	1,266
Boylston st	6	....	....	....	934	934
Brace st	6	....	....	378	....	378
Bradford st., North Main to Fulton	6	....	....	....	1,011	1,011
do. west from North Main	6	....	....	67	....	67
Bridge st., Water to Chestnut	6	....	....	....	1,921	1,921
do. west from 6″ high service at Water (west), (for West Springfield emergency supply)	3	14	....	....	....	
do. Water to Main	6	....	....	873	....	
do. east from Main.	6	....	....	211	....	
do. east from Dwight	6	....	....	135	....	1,233
Brightwood ave., west from Plainfield st	6	....	....	....	176	176
Bristol st., south from Wilbraham road	6	....	....	144	....	144
Broad st., west from Main	8	....	1,001	....	....	
do. from 8″ to Hanover	4	....	....	....	52	1,053
Brookline ave	6	....	....	....	660	660
Brown st., Bay to Yale	6	....	....	564	....	564
Bryant st., south from Sumner ave	8	....	....	213	....	213
Buckingham st., north from State	6	670	....	....	....	
do. from cement-lined to Bay	6	....	....	600	....	
do. Bay to Clarendon	4	....	....	806	....	2,076
Buckingham place, south from Buckingham st	1¼	143	....	....	....	
do. from 1¼″ to Bay st	1¼	195	....	....	....	338
Buena Vista plaza, west from Long Hill st. (P.) (S. R.-10,533)	2	423	....	....	....	423
Burr st., east from Andrew	4	....	....	695	....	695
Butler st., Chestnut to Arbor	6	....	....	....	975	
do. east from Arbor	6	....	....	....	194	
do. east from 6″	4	....	....	....	346	1,515
do. crossing to Everett (proposed st.)	4	....	....	....	197	197
Byers st	10	....	....	1,421	....	1,421
Calhoun st., North Main to North	6	....	....	....	750	
do. east from North	6	....	....	....	365	
do. east from 6″ (see S. R.-12,879)	1¼	....	33	....	....	1,148
do. east from North Main	6	....	....	16	....	16
Cambridge st	6	....	....	1,601	....	1,601
Carew place, north from Carew st	4	....	....	....	166	166
Carew st., Main to North	16	....	875	....	....	
do. at North (east)	16	....	....	....	5	
do. from 16″ at North (east) to Chestnut	8	....	....	....	799	
do. Chestnut to Arbor	6	....	....	....	951	2,630

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Carew st., east from Main	8	....	....	19	....	
do. Main to Chestnut (see Ludlow supply, "Main No. 2")	20	....	....	—	....	
do. Chestnut to near Prospect (east) (see Ludlow supply, "Main No. 2")	24	....	....	—	....	
do. east from Armory	6	....	....	11	....	30
Carew st. ave., north from Carew st. (P) (S. R.-12,009)	1¼	323	....	....	....	323
Carlisle st., south from Wilbraham road	6	....	....	692	....	692
Cass st., Linden to Everett	4	....	....	..	359	359
do. Liberty to Franklin	6	....	....	628	....	628
Catharine st., State to Dartmouth	12	....	....	1,961	....	1,961
Cedar st., Walnut to Pine	16	1,254	....	....	....	
do Pine to opposite No. 15	2	390	....	....	....	1,644
Cedar st., I. O.	4	374	....	....	....	374
Center st., I. O., east from Oak	6	....	....	846	....	
do. from 6″ to Cedar	2	360	....	....	....	1,206
Central ave., I. O., west from Parker st.	6	....	....	455	....	455
Central st., east from Main	4	....	....	....	482	
do. from 4″ to 6″ cast-iron at Maple	6	....	937	....	....	
do. at Maple (west)	6	....	....	....	22	1,441
do. east from Main	8	....	....	579	....	
do. Maple to Mill	8	....	....	4,035	....	4,614
Central st. court, Central st. to Foster court	6	....	....	292	....	292
Chapel st., east from Eastern ave	6	....	....	411	....	411
Chapin pond, pumping station	8	....	....	163	....	
do. do.	12	....	....	299	....	462
Charles st., Franklin to Liberty	6	....	....	....	650	650
do. south from Liberty	4	....	....	204	....	204
Charter ave., west from Oak st	2	370	....	....	....	370
Chase ave.,	6	....	....	645	....	645
Cherrelyn ave., south from Phœnix	6	....	....	344	....	344
Cherry lane, south from Central st.	6	....	....	1,130	....	
do. from 6″ to Mill st. (see S. R.-12,558),	1¼	409	....	....	....	1,539
Cherryvale ave	6	....	....	731	....	731
Chester st., south from Central (P) (S. R.-6,931)	2	246	....	....	....	
do. south from 2″ (P) (S. R.-6,931)	1¼	39	....	....	....	
do. south from 1¼″ private (see S. R.-15,312)	1¼	8	....	....	....	293
Chestnut st., brook to 20″ cast-iron at Jefferson ave	20	....	1,715	....	....	
do. at Jefferson ave. (north)	20	....	....	....	10	
do. Jefferson ave. to Franklin	12	....	....	....	3,325	
do. Franklin to Bemis place	8	....	....	....	1,540	
do. Bemis place to Edwards st.	6	....	....	....	1,363	
do. south from Edwards	3	....	208	....	....	
do. from 3″ to 4″ cast-iron, at State	4	....	602	....	....	
do. from 4″ cement-lined to State	4	....	....	....	23	8,786
do. Eagle to Springfield	8	....	....	613	....	
do. north from Carew	12	....	....	20	....	
do. Carew to 12″ near Worth'ton (north).	16	....	....	3,185	....	
do. from 16″ to Worthington	12	....	....	63	....	
do. Worthington to Harrison ave	12	....	....	873	....	
do. Harrison ave to 6″	8	....	....	644	....	
do. from 8″ to State st.	6	....	....	360	....	5,758

MAIN AND DISTRIBUTION PIPE.—Continued.

LOCATION OF PIPE.	Size in Inches.	Length in Feet.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast Iron.		
		High Service	Low Service	High Service	Low Service	
Chestnut st., I. O., at Worcester (south)	4	....	....	15	....	
do. from 4″ cast-iron to Hampden	4	369	....	....	....	
do. Hampden to Berkshire	8	....	....	282	....	666
Chicopee Falls road, Ludlow, west from 30″ main	2	1.219	....	....	....	1,219
Church st., North Main to North	6	....	....	....	898	898
do. east from North Main	6	....	....	19	....	19
Churchill st	6	....	....	675	....	675
City Hall ave., south from Pynchon st	4	....	....	131	....	131
Clantoy st., Phœnix ave. to Dupont place	6	....	....	1,158	....	1,158
Clarendon st., Bay to St. James ave	6	....	...	1,068	....	
do. north from Worthington (for hydrant)	6	....	....	12	....	
do. north from Worthington	2	233	....	....	....	1,313
Clark st	6	...	.....	636	....	636
Clayton st., west from Plainfield	6	....	....	....	420	420
Cleveland st	6	....	....	1,105	....	1,105
Clifford st	4	....	....	505	....	505
Clifton ave., south from Central st	4	....	....	504	....	504
Cliftwood ave	6	....	....	449	....	449
Clinton st., Main to Fulton	6	....	....	....	796	796
do. west from Main	6	....	....	210	....	210
Clyde st., west from Plainfield	6	....	....	....	864	864
Coleman st., Boston r'd to beyond Embury st	6	....	....	1,036	....	1,036
College ave., State st. to Shattuck ave	6	....	....	833	....	
do. north from Shattuck	6	....	....	168	....	1,001
College st., State to Wilbraham road	8	....	....	567	....	567
Collins st	6	....	....	580	....	580
Colonial ave	6	....	....	850	....	850
Colton st., Wilbraham road to Beacon st	6	....	....	1,680	....	1,680
Columbia terrace, north from Liberty st	6	....	....	246	....	246
Commonwealth ave., Walden st. to beyond Washington	6	....	....	1,492	....	1,492
Concord st., south from Rimmon ave	2	295	....	....	....	295
Concord terrace, no. from Wilbraham road	2	202	....	....	....	202
Congress st., Main to 4″, near Chestnut	6	....	....	....	1,533	
do. from 6″ to Chestnut	4	....	....	....	60	1,593
Continental ave., south from Sumner	6	....	....	414	....	414
Converse st., north from Sumner ave	6	....	....	457	....	457
Cook's ave., Bridge st. to North Church ave	4	....	....	....	126	126
Cornell place, north from Cornell st	1½	106	....	....	....	106
Cornell st	6	....	....	1,829	....	1,829
Cortland st., State to Shattuck ave	6	....	....	797	....	797
Cottage ave., east from Walnut st. (P) (S. R.–7,681-8,916)	1½	169	....	....	....	
do. Walnut st. to Melrose	6	....	....	296	....	
do. north and thence east from Melrose st	6	....	....	492	....	957
Court st., Main to 8″ at Water	6	....	....	....	1,060	
do. at Water	8	....	....	....	4	1,064
do. west from Main	8	....	....	294	....	294
Crescent st., north from Springfield	6	....	....	384	....	384
Crosby st., west from Walnut	2	315	....	....	....	315
Cross st., west from Willow	1½	....	142	....	....	
do. at Willow (east)	6	....	....	12	....	
do. from 6″ to Maple st	4	....	....	605	....	759
Crystal ave	6	....	....	962	....	962
Cumberland st., east from North Main	8	....	....	135	....	135

MAIN AND DISTRIBUTION PIPE.—Continued.

LOCATION OF PIPE.	Size in Inches.	Length in Feet.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Cypress ave., at Cypress st.	4	....	....	....	9	
do. north from 4″ at Cypress st.	3	....	210	....	....	
do. north from 3″ (see S. R.-13,406)	1	....	70	....	....	289
Cypress st.	6	....	....	....	720	720
do.	8	....	....	676	....	676
Dale st., Union to William	6	....	....	....	400	
do. William to Winthrop	4	....	....	....	249	649
Dartmouth st., Catharine to St. James ave.	12	....	....	1,036	....	1,036
Dartmouth terrace, west from St. James ave.	6	....	....	479	....	479
Davis st., Ludlow, south from Stebbins	1¼	237	....	....	....	237
Dawes st.	6	....	....	1,250	....	1,250
Dawson ave.	2	401	....	....	....	401
Demond ave.	6	....	....	....	922	922
do. at Fisk ave	6	...	....	2	....	2
Denver st., south from Boston road	6	....	....	960	....	960
Dexter st.	6	....	....	755	....	755
Dickinson st., Mill to Orange	16	....	....	175	....	
do. Orange to Oakland	8	....	....	1,780	....	
do. Oakland st. to Sumner ave.	6	....	....	2,063	....	
do. Belmont ave. to Groveland	6	...	....	2,104	....	6,122
Donald st.	6	....	....	473	....	473
Dorchester st.	6	....	....	620	....	620
Douglas st.	6	....	....	582	....	582
Dover st., east from North Main	6	....	....	561	....	561
Dresden st.	6	....	....	805	....	805
Dupont place, west from Clantoy st. (see S. R.-12,766)	1¼	191	....	....	....	191
Dwight st., State to Worthington	6	....	....	....	1,851	
do. crossing sewer at Worthington (north)	6	....	....	....	45	
do. south from Lyman	6	....	....	....	49	1,945
do. State to Lyman (less 8″ crossing sewer at Worthington, north)	10	....	....	2,322	....	
do. crossing sewer at Worthington (north)	8	....	....	28	....	2,350
Dymon st.	6	....	....	525	....	525
Eagle st., North Main to Chestnut	6	....	....	596	....	596
Earl st., Johnson to Bloomfield	2	299	....	....	....	299
East Court st.	4	....	....	584	....	584
Eastern ave., in State st., at 24″ main	8	....	....	18	....	
do. from gate at State st. 24″ main to Tyler st.	12	....	....	1,568	....	
do. Tyler street to Pendleton ave.	12	350	....	....	....	
do. Pendleton ave. to Melrose st.	8	....	....	2,509	....	4,445
East Hooker st., east from North Main	6	....	....	....	361	361
do. east from North Main	4	....	....	14	....	14
Edgeland ave., west from Fort Pleasant	6	....	....	488	....	488
Edwards st., at Chestnut	6	....	....	20	....	
do. from 6″ to Elliott	4	....	....	733	....	753
Elizabeth st., south from Berkshire (for hydrant)	6	...	....	36	....	
do. south from 6″	1¼	290	....	....	....	326
Elliott st.	6	....	....	1,059	....	1,059
Elm st., Main to 8″ at Water (east)	6	....	....	....	965	
do. at Water (east)	8	....	....	....	15	
do. Water to beyond railroad	6	....	...	....	299	
do. west from 6″ (beyond railroad)	2	....	45	....	....	1,324
do. west from Main	8	....	....	306	....	306

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Elmwood st.. west from Main	6	....	....	....	810	810
do. from 6″ low service (connecting) to Hanover st.	6	....	....	163	....	163
Emery st	6	....	....	....	724	724
do.	8	....	....	716	....	716
Essex st., Main to 6″ cast-iron near Chestnut	6	....	1,625	....	....	
do. from 6″ cement-lined to Chestnut	6	....	....	....	25	1,650
do. east from Main	6	....	....	14	....	14
Essex st., I. O., Myrtle to Pine	8	....	....	1,440	....	1,440
Euclid ave., Belmont to Dickinson st.	6	....	....	1,203	....	
do. (extension), north from Dickinson st.	6	....	....	240	....	1,443
Everett st., Chestnut to near Cass	6	....	....	....	1,186	
do. from 6″ to Cass	4	....	....	....	50	
do. east from Cass	4	....	....	....	302	1,538
Fairbanks pl., north from Worthington st.	4	....	....	....	261	261
Fairfield st., north from Garfield	6	....	....	934	....	934
Fairmount st., east from Commonwealth ave. (see S. R.-14,100)	1½	144	....	....	....	144
Fairview st., east from Groveland ave.	6	....	....	96	....	96
Farnsworth st., east from Hamburg	6	....	....	1,338	....	1,338
Federal st., State to Armory	16	....	....	998	....	
do. Armory to Summer	8	....	....	1,500	....	2,498
Ferry st., east from Main (for flush gate)	6	....	....	....	30	30
do. east from Main	6	....	....	671	....	
do. from 6″ to Chestnut	8	....	....	857	....	1,528
Fire reservoirs, sundry streets	4	....	....	....	31	
do. sundry streets	6	....	....	....	86	117
Firglade ave., Sumner to Pineywoods	6	....	....	1,050	....	1,050
First st., I. O., south from Central ave.	6	....	....	183	....	183
Fisk ave., south from Wason	8	....	1,493	....	....	1,493
do. south from Wason	12	....	....	736	....	
do. south from 12″ Grace st. line	8	....	....	205	....	941
Five Mile pond pumping station:—						
Suction for small pump	10	....	....	6	....	
" " " " (balance left in)	12	....	....	28	....	
Discharge for small pump	12	....	....	38	....	
Suction for large pump	20	....	....	293	....	
Discharge for large pump	12	....	....	15	...	
Discharge line, connecting pumps with Ludlow Main No. 1	16	....	....	2,755	....	
For fire hydrant at pump house	4	....	....	25	....	3,160
Florence st., Pine to Hancock	6	1,615	....	....	....	
do. east from Hancock	2	263	....	....	....	
do. from 2″ to Walnut	1	88	....	....	....	1,966
Florentine gardens	6	....	....	594	....	594
Florida street, Bay to 6″ cast-iron at Worthington (south)	6	1,520	....	....	....	
do. at Worthington (south)	6	....	....	14	....	
do. Worthington to Ingersoll grove	6	....	....	850	....	2,384
Forest park, from Sumner ave. (P) (S. R.-9,099)	6	....	....	2,610	....	
do. for hydrants (P) (S. R.-9,099)	4	....	....	30	....	
do. in Greeting ave. (city pipe) (see S. R.-13,555)	6	....	....	238	....	2,878
Forest Park ave., Fort Pleasant to Sumner.	6	....	....	2,649	....	
do. Sumner to Pineywoods	6	....	....	832	....	3,481
Forest st.	6	....	....	843	....	843

MAIN AND DISTRIBUTION PIPE.—Continued.

LOCATION OF PIPE.	Size in Inches.	Length in Feet.				Totals in Feet.
		Cement-Lined or Wrought Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Fort st	6	....	....	....	715	715
do. west from Main (P) (S. R.–6,490)	4	....	....	76	....	76
Fort Pleasant ave., Mill st. to junction Belmont ave	12	....	....	167	....	
do. Belmont to Sumner	8	...	....	2,755	....	2,922
Foster court	6	....	....	762	....	762
Franklin st., Main to Chestnut	6	....	....	....	1,613	1,613
do. Main to Chestnut	8	....	....	1,583	....	
do. at Chestnut (east) (north from hydrant branch to 6'' main)	6	....	....	15	....	
do. Chestnut to Charles	6	....	....	280	....	
do. Charles to Cass	6	....	....	1,139	....	
do. east from Cass (P) (S. R.–6,651)	1¼	128	....	....	....	
do. west from Webster (see S. R.–13,954)	6	....	....	140	....	
do. east from Webster	6	....	....	83	....	
do. near Webster (east) (connect'g 6'' & 2'')	1	4	....	....	....	
do. from 6'' to Genesee	2	1,017	....	....	....	4,389
Fremont st	6	....	....	....	831	831
Front st., I. O., west from Oak	8	....	....	583	....	583
Fulton st., Cypress to Plainfield	6	....	....	....	3.530	
do. Plainfield to brow of Round Hill	6	....	....	....	456	3,986
Gardner ave	8	....	....	329	....	329
Gardner st., Main to Water	12	....	500	....	....	
do. west from Water	12	....	84	....	....	
do. west from 12''	8	....	399	....	....	
do. west from 8''	6	....	150	....	....	
do. from 6'' to Hanover	4	....	....	....	42	1,175
do. from Gardner av. to Hanover st	8	....	....	189	....	189
Garfield st	6	....	....	1,544	....	1,544
Genesee st., at Liberty (for hydrant, only)	6	.. .	....	34	....	
do. Liberty to Franklin	2	323	....	....	....	
do. at Franklin (north)	1¼	38	....	....	....	
do. north from 1¼''	6	....	....	194	....	589
George st	16	....	....	594	....	594
Girard ave., Bay st. to McKnight	6	....	....	975	....	975
Gladwood ave	6	....	....	492	....	492
Gold st., east from Armory	6	....	....	288	....	288
Grace st., North Main to Birnie ave	4	....	509	....	....	509
do. North Main to Birnie ave	12	....	....	690	....	
do. Birnie ave., crossing to Fisk ave	12	....	....	390	....	1,080
Granada terrace	6	....	....	1,189	....	1,189
Grand st., White to Revere	6	....	....	556	....	556
Grant st	4	....	....	600	....	600
Granville st., Eastern ave. to Logan st	6	....	....	497	....	497
Gray's ave., north from Cypress	6	....	....	....	358	
do. north from 6''	4	....	221	....	....	
do. from 4'' to Emery st	6	....	....	....	14	593
Green lane, circuit from Rimmon ave. and return	6	....	....	1,117	....	1,117
Greene st., Hancock to Eastern ave	6	....	....	1,363	....	1,363
Greene st. ave., north from Greene st	2	200	....	....	....	200
Greenleaf st	6	....	....	666	....	666
Greenwich st	6	....	....	698	....	698
Greenwood st., east from Main	6	....	....	....	1,271	
do. from 6'' to Chestnut	4	....	....	....	337	1,608
Grosvenor st	6	....	....	....	773	773

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Grove st., west from East Hooker	6	....	....	....	388	388
do. at North Main (east and west).........	6	....	....	32	....	32
Groveland ave., Dickinson st. to Fairview...	6	....	....	509	....	509
Grover st..............................	6	....	....	1,380	....	1,380
Gunn square (north roadway) east from Northampton ave. (see S. R.-11,512)	1½	100	....	....	....	
do. (south roadway) east from Northampton ave..........................	1½	142	....	....	....	242
Hall st..................................	6	....	....	1,019	....	1,019
Hamburg st., Springfield to Los Angeles ave	6	....	....	765	....	765
Hampden st., at Main......................	12	....	....	....	28	
do. from cast-iron to Water..............	12	....	672	....	....	700
do. Main to Water.......................	8	....	....	660	....	660
Hampden st., I. O., Holly to Chestnut	6	....	....	624	....	
do. Chestnut to Myrtle..................	4	750	....	....	....	
do. Myrtle to 6″........................	4	....	....	662	....	
do. from 4″ to Oak st....................	6	....	....	35	....	2,071
Hampshire street, I. O......................	4	....	....	1,829	....	1,829
Hancock st., State to Lebanon..............	16	2,400	....	....	....	
do. Lebanon to Walnut..................	12	....	....	930	....	
do. Walnut to Central....................	6	....	....	1,542	....	
do. at Central (south)....................	8	....	....	3	....	
do. south from 8″ (at Central)............	4	....	....	225	....	
do. south from 4″	6	....	....	412	....	5,512
Hanover st., Gardner to Broad..............	4	....	....	....	513	513
do. Gardner to York (see note)...........	8	....	....	789	....	789
(NOTE:—Emergency connection at York st. with 6″ low service main in that st.)						
Harriet st., North Main to Chestnut........	6	....	....	....	850	850
Harris road, Ludlow, north from North st..	6	....	....	1,763	...	1,763
Harrison ave., Main st. to Dwight...........	6	....	....	....	649	649
do. Main st. to Chestnut	12	....	....	895	....	
do. east from Main st.(for Republican blk)	6	....	....	25	...	
do. west from Dwight (short line).........	6	...	....	173	....	1,093
Harvard st., Yale to Cornell	6	....	....	1,663	....	1,663
Harvey st................................	4	....	....	1,581	....	1,581
Hawley st..............	6	515	....	....	....	515
Hawthorn st., Spruce to Hancock...........	4	....	....	568	....	568
Hayden ave...............................	4	....	....	1,095	....	1,095
Hebron st., North to Chestnut.............	6	....	....	....	746	746
Heywood st., south from Liberty (P) (S. R.-6,720)	6	....	....	257	....	257
Hickory st., east from Central..............	2	488	....	....	....	
do. Walnut st. main to Walnut st. east line	6	125	....	....	....	
do. Walnut st. east line to hydrant opposite Int'l Y. M. C. A. Training School..........................	4	....	....	2,290	....	
do. from 4″ to Alden	8	....	....	323	....	
do. Alden to Woodbine ave...............	4	....	....	538	....	
do. at Woodbine ave. (east)...............	4	....	....	11	....	
do. east from 4″ at Woodbine ave......	3	799	....	....	....	
do. from 3″ to Carlisle branch (east) (see S. R.-11,027)........................	1½	1,501	....	....	....	
do. east from 1½″ (see S. R.-11,028)......	1	13	....	....	....	
do. south from Wilbraham road (see S. R.-12,284-12,285).................	1½	108	....	....	....	6,196

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
High st., Maple to School	6	....	....	807	....	
do. School to Walnut	6	1,854	....	....	....	2,661
Hillman st.	8	....	....	692	....	692
Hillside place, east from Richelieu court, (P) (S. R.-8,946)	2	....	120	....	....	120
Hobson st., south from Berkshire	1¼	192	....	....	....	192
Holly st., I. O., Worcester to Hampden	6	....	....	372	....	372
Hollywood st., east from Dickinson	6	....	....	18	....	18
Holyoke st	6	....	....	....	874	874
do. west from Main	6	....	....	86	....	86
Home st., west from Liberty	6	....	....	591	....	591
Homer st	6	....	....	644	....	644
Hooker st., west from North Main	6	....	....	14	....	
do. west from city's 6″ (P) (S. R.-13,062-13,706)	6	....	....	866	....	880
Horace st., north from Dickinson	6	....	....	166	...	166
Howard court, south from Howard st. (see S. R.-8,662)	1¼	....	212	....	....	212
Howard place, south from Howard st.	4	....	....	....	160	160
Howard st., Main to Water	6	....	....	...	994	
do. Water to railroad	6	....	362	....	....	
do. west from railroad	2	....	100	....	....	1,456
do. west from Water	6	....	....	42	....	
do. from 6″ to railroad	4	....	....	304	....	346
Howard st., Ludlow, east from North (P) (S. R.-5,629)	1½	441	....	....	....	441
Howes st., south from Sumner ave	6	....	....	276	....	276
Hubbard ave., Main to Dale	6	....	....	....	621	621
Hunt terrace, north from Allen st	4	....	....	235	....	
do. north from 4″	1½	108	....	....	....	343
Hunter place, north from State st	6	....	....	457	....	457
Huntington st., North Main to Birnie ave.	6	....	....	....	699	699
Hyde ave., east from Plainfield st	6	....	....	....	17	17
do. at Fisk ave	4	....	....	7	....	
do. from 4″ to Plainfield st	6	....	....	939	...	946
Hydrants, sundry streets	4	....	952	....	1,605	
do. sundry streets	6	....	....	....	471	3,028
do. sundry streets	4	....	....	3,967	....	
do. sundry streets	6	....	....	3,710	....	
do. sundry streets	8	....	....	94	....	
do. Hooker st. (P) (S. R.-13,062-13,706)	6	....	....	34	....	7,805
Indian Orchard road (see Ludlow supply, "Main No. 1")	24	——	....	....	....	
Ingersoll grove, Worthington st. to Bowdoin	6	....	....	1,433	....	1,433
Ingraham ave., at High (for hydrant, only).	6	....	....	24	....	24
Irvington ave., south from Sumner	6	....	....	426	....	426
Jackson st., Sumner ave. to Pineywoods	6	....	....	851	....	851
James st	4	....	....	959	....	959
Jasper st	6	....	....	1,079	....	1,079
Jefferson ave., at North Main st	8	....	....	....	10	
do. from 8″ to North st	12	....	....	....	876	
do. North st. to Chestnut	16	....	482	....	....	1,368
do. at North Main st	12	....	....	15	....	
do. from 12″ to North st	6	....	....	792	....	807

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
John st., west from Plainfield	4	....	....	....	259	
do. from 4'' to Fulton	6	...	...	....	419	678
Johnson st	6	....	....	1,930	....	1,930
Joy st., Ludlow, west from North st. to 2'', at angle	4	....	....	600	....	
do. south from 4'', at angle, to Ludlow Main No. 1	2	244	....	....	....	
do. north, from 2'', at angle	1¼	115	....	....	....	959
Keith st	6	....	....	1,122	....	1,122
Kensington ave., east from Oakland st	6	....	....	1,164	....	1,164
Kenwood park	6	....	....	800	....	800
Kibbe ave	8	....	....	240	....	240
King st., Walnut to Hancock	4	....	....	995	....	
do. Hancock to Eastern ave	6	....	....	1,365	....	
do. east from Eastern ave	6	....	....	455	....	
do. Wilbraham ave. to Westford	6	....	....	523	....	3,338
Knox st	6	....	....	1,187	....	1,187
Ladd st	6	....	....	555	....	555
Lafayette st	6	....	....	620	....	620
Laurel ave., west from Plainfield st	6	....	....	....	674	674
Lebanon pl., south from King st. (P) (S.R.–5,016)	1¼	336	....	....	....	336
Lebanon st., Walnut to Hancock	16	630	....	....	....	
do. Hancock to Eastern ave	6	....	....	1,377	....	2,007
Lenox st	6	....	....	447	....	447
Lexington ave	6	....	....	....	666	666
Lester st., north from Sumner ave	6	....	....	517	....	517
Leyfred terrace, north from Belmont ave	6	....	....	593	....	593
Liberty st., east from Main	6	....	....	....	1,195	
do. from 6'' to Chestnut	4	....	....	....	276	
do. Chestnut to Charles	6	....	....	....	319	1,790
do. from Main to 8'' (opposite Hawkins foundry)	6	....	....	1,984	....	
do. from 6'' (opp. Hawkins foundry) to Heywood	8	....	....	2,653	....	
do. Heywood to Armory	8	....	....	1,950	....	
do. at Armory (north)	6	....	....	24	....	
do. south from Phœnix ave	8	....	....	164	....	
do. Phœnix ave. to Carew st	8	....	....	1,058	....	
do. Carew to Home	8	....	....	820	....	8,053
Lillian st., Oak to Orleans	4	....	....	440	.. .	440
Lincoln st	6	....	....	804	....	804
Linden st	6	....	....	....	1,340	1,340
Litchfield st., Belmont ave. to Garfield st	6	....	....	421	....	421
Locust st., Main to near Mill	12	732	....	....	....	
do. from cement-lined to Mill	12	....	....	25	....	757
Logan st., at Olive (for flush gate)	6	....	....	10	....	
do. Ladd to Alden	8	....	....	453	....	463
Lombard st	4	....	....	....	658	658
Long Hill st., Main to Cherryvale ave	8	....	....	2,867	....	
do. Cherryvale ave. to Main st. (opposite E. H. Barney's house)	6	....	....	2,275	....	5,142
Longfellow terrace, east from Whittier ave.	6	....	....	330	....	330
Loon pond pumping station:—						
Suction pipe	10	....	....	84	....	
Discharge pipe, connecting pump with Oak st., I. O., main	10	....	....	752	....	836

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Loring st., near Main (dead end) to 8″ at Water	6	....	....	....	678	
do. at Water	8	....	....	....	9	687
do. Main to Water	8	....	....	789	....	789
Los Angeles ave., east from Hamburg st...	6	....	....	452	....	452
Lowell st	6	....	....	....	1,372	1,372
LUDLOW SUPPLY, as follows :—						
Main No. 1.						
From gatehouse to Higher brook as follows:—Crossing highway, thence near and southerly of same through private property, thence recrossing highway and northerly of same through private property to highway at brook	24	....	....	3,736	....	
Higher brook to Federal st. as follows:—Following highway to near Ludlow village, thence westerly, north of Athol branch of B. & A. R. R.—crossing over Chicopee river at "Indian Leap";—thence under tracks of railroad, and south of same to Main st., I. O., just east of Cedar st.;—thence in Main st., I. O., westerly to Myrtle; in Myrtle st. southerly to Berkshire; in Berkshire st. (Indian Orchard road) to State st.; and in State st. to Federal.—(less 215 feet *cast-iron* under tracks of B. & A. R. R., as below)	24	52,460	....	....	....	
Federal to Spring, 1,773 feet (see State st.)	16	——	....	....	....	
Spring to Main, 2,026 feet (see State st.)	16	....	....	——	....	
Under Athol branch tracks of B. & A. R. R. (at Indian Orchard)...	24	....	....	135	....	
Under main tracks of B. & A. R. R. (at dry bridge in Indian Orchard road)	24	....	....	80	....	56,411
(NOTE:—Actual total length of Main No. 1 *to Main st.* is 60,210 feet, or 2,753 feet more than Main No. 2.)						
Main No. 2.						
From gatehouse, through dam	30	....	....	120	....	
From dam to intersection of Main No. 1 as follows:—Crossing highway, thence southerly of same and of Main No. 1, through private property to point of intersection in highway, about midway Ludlow center and Ludlow village	36	....	....	13,388	....	
From intersection of Main No. 1 to 24″ (in Carew st.) as follows:—Crossing highway at point of intersection, thence northerly of Main No. 1, through private property to Chico-						

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
LUDLOW SUPPLY, continued—						
pee river, just below and west of Indian Orchard, and crossing same under bed of stream; thence through private property to Carew st., just west of St. James ave., and thence in Carew st. to 24″, near Prospect st., east	30	....	....	39,899	....	
From 30″ (in Carew st) to Chestnut st.	24	....	....	2,380	....	
From Chestnut st. (in Carew st.) to Main —(See NOTE at end of Main No. 1.)—	20	....	....	1,670	....	57,457
At Chicopee river:—Auxiliary main for possible future use, laid across and under bed of stream, west of and parallel to Main No. 2—not connected at either end	30	....	....	300	....	300
At Reservoir.						
From distributing canal to cut-off basin	36	....	....	36	....	
Under cut-off dam	36	....	....	132	....	
At Cherry Valley drain gate	20	....	....	36	....	204
Lyman st., Main to Chestnut	8	....	...	....	1,369	
do. east from Chestnut	8	....	....	....	230	
do. east from 8″ cast-iron	6	....	112	....	....	
do. from 6″ cement-lined to Spring	6	....	....	....	436	2,147
do. Main to Dwight	6	....	....	850	....	
do. Dwight to Chestnut	8	....	....	475	....	
do. Chestnut to Spring	6	....	....	768	....	2,093
Lyndale st., north from Belmont ave	8	....	....	344	....	344
Madison ave., north from Central st	6	....	....	556	...	556
Magazine st., Grant to Armory	4	....	....	638	....	638
Magnolia terrace, Sumner avenue to Pineywoods	6	....	....	1,205	....	1,205
Main st., Carew to Liberty (south)	16	....	2,415	....	....	
do. Liberty (south) to Lyman (north)	16	....	....	....	318	
do. Lyman (north) to Hampden	16	....	242	....	....	
do. Hampden to Central	12	....	....	....	4,340	
do. Central to Locust	12	....	2,018	....	....	
do. Locust to Mill	6	....	830	....	....	10,163
do. Carew to State	16	....	....	5,210	....	
do. State to Locust	12	....	....	4,143	....	
do. Mill to Mill river	12	....	....	310	....	
do. Mill river to Long Hill st	12	....	....	600	....	
do. south from Long Hill st	8	....	....	1,167	....	
do. south from 8″	6	....	....	361	....	
do. south from 6″ (opposite South End bridge)	1½	133	....	....	....	
do. Long Hill st. (opposite E. H. Barney's house) to Pecousic brook	6	....	....	508	....	
do. at Carew (between high and low)	6	....	....	25	....	
do. at Bridge (between high and low services. and sewer manhole)	6	....	....	24	....	12,481
Main st., I. O., west from Myrtle	8	....	....	510	....	
do. Myrtle to beyond Cedar (see Ludlow supply, "Main No. 1")	24	—	....	....	....	
do. at 24″ main (east)	8	....	....	24	....	
do. from 8″ at 24″ main (east) to Wilbraham line	6	....	....	3,930	....	4,464

MAIN AND DISTRIBUTION PIPE.—Continued.

LOCATION OF PIPE.	Size in Inches.	Length in Feet. Cement-Lined or Wrought-Iron. High Service	Length in Feet. Cement-Lined or Wrought-Iron. Low Service	Length in Feet. Cast-Iron. High Service	Length in Feet. Cast-Iron. Low Service	Totals in Feet.
Main Supply Pipes—(see "Ludlow supply," and "Van Horn supply")...	—	—	—	—	—	
Malden st., Allen to Grand	6	....	....	835	....	835
Manhattan st., Walnut to Eastern ave	6	....	....	1,120	....	1,120
Maple ave., east from Maple st	6	....	....	392	...	392
Maple st., State to Central	6	....	....	....	2,138	2,138
do. Stockbridge to Union	6	....	....	857	....	
do. Union to Central	8	....	....	1,235	....	
do. Central to Pine	6	1,753	....	....	....	
do. op. No. 310 (connecting 6″ and 4″)	4	....	....	15	....	
do. opposite No. 310 to near Pine (east)	4	..	....	650	....	
do. near Pine (east) to George	4	276	....	....	....	
do. at George (connecting 4″ and 16″)	2	76	....	....	....	
do. George to Mill	16	....	....	511	....	5,373
Maple st., Ludlow, east from Harris road	6	...	....	432	....	432
Mapledell st	6	....	....	1,013	....	1,013
Maplewood terrace (north roadway)	6	....	....	1,378	....	1,378
Marble st	8	....	....	....	1,084	1,084
Marengo park	6	....	....	1,381	....	
do. south side of park	2	590	....	....	....	1,971
Margaret st., Main to Water	6	....	....	....	884	
do. west from Water	4	....	....	....	566	1,450
do. west from Water	6	....	....	531	....	531
Marion st., Bay to McKnight (see Mason st. for extension)	6	....	....	889	....	889
Market st., State to Harrison ave	6	....	....	....	1,058	1,058
do. State to Sanford	6	....	....	298	....	
do. south from East Court (P) (S. R.–4,262)	3	90	....	....	....	
do. south from Townsley ave	4	....	....	95	....	
do. north from Townsley ave	6	....	....	101	....	584
Marlborough st., east from Norfolk	1¼	86	....	....	....	86
Mason place, south from Dickinson st.,	6	....	....	448	....	448
Mason st. (including Marion st. extension)	6	....	....	1,239	....	1,239
Massachusetts ave., south from Wilbraham road	6	....	....	336	....	
do. from 6″ to opposite No. 40	8	....	....	168	....	504
Massasoit st., Carew to Montmorenci	6	....	....	....	1,921	
do. north from Montmorenci (P) (S. R.–6,519)	1¼	....	158	....	....	2,079
do. at Carew (for hydrant)	6	....	....	50	....	50
Mattoon st., at Chestnut	6	....	....	....	24	
do. from 6″ to Elliott	4	....	601	....	....	625
do. west from Elliott	6	....	....	692	....	692
Maynard st., south from Shattuck ave	6	....	....	612	....	612
McKnight st., Sherman to Bowles	4	....	....	507	....	
do. Bowles to Girard ave	6	....	....	414	....	921
Mechanic st., Water to railroad	6	....	....	392	....	392
Mechanics row, south from Bliss st	2	69	....	....	....	69
Medford st	6	....	....	682	....	682
Melrose st.. Eastern ave. to Cottage	6	....	....	740	....	740
Mero st., Ludlow, east from Harris road	6	....	....	489	....	489
Merrick ave., King st. to 1″ at Lebanon	2	348	....	....	....	
do. at Lebanon st	1	24	....	....	....	372
Merwin st	6	....	....	730	....	730
Middlesex st., south from Wilbraham road	6	....	....	426	....	426

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Mill st., U. S. Watershops to Central	8	....	....	400	....	
do. south from Central (see S. R.–12,560)	1¼	467	....	....	....	
do. Dickinson to Maple	16	....	....	962	....	
do. west from Maple (for hydrant only)	8	...	....	63	...	
do. east from Pine	8	....	....	428	....	
do. Pine to Locust	16	1,157	....	....	....	
do. Locust to Main	12	....	....	581	....	4,058
Milton st., I. O., south from Main	6	....	....	694	....	
do. south from 6'' (P) (S. R.–10,779 and 10,780)	1¼	203	....	....	....	897
Monmouth st., Berkeley to Yale	6	....	....	479	....	
do. Yale to Dorchester	4	....	....	683	....	1,162
Monroe st., east from Hancock	6	...	....	824	....	
do. from cast-iron to Hawley	6	154	....	....	....	
do. Hawley to Colton	6	...	....	730	....	1,708
Monson ave., north from Greene st	2	199	....	....	....	199
Montmorenci st	6	....	....	....	678	678
Montrose st., south from Burr	6	....	....	978	....	978
Moore ave., west from Plainfield st	6	....	....	....	663	663
Mooreland ave., at Carew st	8	....	....	12	....	
do. north from 8''	6	....	....	1,249	....	1,261
Morgan st., east from North Main	6	....	....	....	178	
do. east from 6''	4	....	....	....	63	
do. from 4'' to near North st	6	....	....	....	580	
do. from 6'' to North st	4	....	....	....	75	896
do. east from North Main	6	....	....	21	....	21
Morris st., east from Main	6	....	....	....	784	
do. from 6'' to Central	8	....	....	....	326	1,110
Mountainview st	6	....	....	726	....	726
Mulberry st., east from Maple (see S. R.–4,957)	2	445	....	....	....	
do. connecting 2'' and 6''	1¼	15	....	....	....	
do. from 2'' to School st	6	....	....	258	....	
do. School to Union	6	1,380	....	....	....	2,098
Murray Hill ave., Liberty st. to 1'' at Franklin	6	....	....	651	....	
do. at Franklin (connecting)	1	15	....	....	....	666
Myrtle st	4	....	....	548	....	548
Myrtle st., I. O., Main to Berkshire (see Ludlow supply, "Main No. 1")	24	——	....	....	....	
do. Berkshire to Essex	8	.	....	627	....	627
Nelson ave., King st. to 1'' at Lebanon	2	358	....	....	....	
do. at Lebanon st. (north)	1	17	....	....	....	
do. Lebanon st. to Greene	2	411	....	....	...	786
New st., west from Dwight	2	....	180	....	....	180
do. west from Dwight	6	....	....	176	....	176
Newbury st. (Sherman road), south from Carew	6	....	....	19	....	19
Newland st., west from Plainfield	6	....	....	....	1,192	1,192
Noel ave., west from Oakland st	6	....	....	813	....	813
Norfolk st., south from Wilbraham road	6	....	....	1,284	....	
do. south from 6''	1¼	38	....	....	....	1,322
North st., Carew to Jefferson ave	16	....	2,000	....	....	
do. south from Calhoun (see S. R.–8,713–9,555)	1¼	....	181	....	....	
do. Calhoun to Harriet	6	....	....	....	972	3,153

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
North st., at Carew (for hydrant)	6	....	....	51	....	51
Northampton ave., Wilbraham road to south roadway of Gunn square (south)	6	....	....	1,660	....	1,660
North Church ave	4	....	....	....	400	400
North Main st., Carew to 8″ gate (opposite No. 279-283), near Grove st. (south)	8	....	....	....	3,112	
do. near Grove (south) to Wason ave. (less cast-iron at Thomas st., crossing Burt's brook)	8	....	2,924	....	....	
do. at Thomas st. (crossing Burt's brook)	8	....	....	....	52	
do. north from Wason ave	8	....	....	....	356	6,444
do. Carew to Grace	16	....	....	5,415	....	
do. at proposed street, midway Adams' nursery (west)	4	....	....	14	....	
do. Grace to Chicopee line (P)(S.R.-7,948)	1¼	1,740	....	....	....	7,169
Norwood st	6	....	....	....	1,016	1,016
Oak st	6	1,450	....	....	....	1,450
Oak st., I. O., Water to Main	8	....	....	381	....	
do. Main to Hampshire	6	....	....	1,336	....	
do. Hampshire to old Bay road	4	....	....	1,237	....	
do. old Bay road to High st	6	....	....	734	....	
do. High st., south to opposite No. 340	8	....	....	830	....	
do. from opposite No. 340 south and east to Parker	6	....	....	2,328	....	
do. south from Worcester (see S.R.-6,671)	1¼	150	....	....	....	6,996
Oak Grove ave., north from State st	6	....	....	678	....	678
Oakland st., at Belmont ave	8	....	....	21	....	
do. from 8″ to Allen	6	...	....	3,409	....	3,430
Old Bay road, Pasco st. to Oak, I.O.	8	....	....	263	....	263
Olive st	6	....	....	515	....	515
Orange st., Oakland to White	6	....	....	1,581	....	
do. east from White	6	....	....	474	....	2,055
Orchard street	6	....	....	....	1,452	1,452
Orleans court, Oak st. to 1¼″	1¼	255	....	....	....	
do. from 1¼″ to Orleans st. (P) (S. R.-7,871-8,111)	1¼	182	....	....	....	437
Orleans st., State to Union	4	....	....	755	....	
do. Union to Pendleton ave	6	....	....	858	....	1,613
Ormond st., north from Belmont ave	6	....	....	15	....	
do. from 6″ to Sumner ave	1¼	394	....	....	....	409
Osgood st., North Main to 4″ cast-iron near North	4	....	925	....	....	
do. from 4″ cement-lined to 8″ at North.	4	....	....	....	33	
do. at North	8	....	....	....	3	961
do. east from North Main	6	....	....	21	....	21
Ozark st., Orange to Grand	6	....	....	610	....	610
Palmer ave., east from Locust st	6	....	....	307	....	
do. east from 6″ (P) (S. R.-5,695)	2	678	....	....	....	985
Park st., east from Willow	3	....	....	....	224	
do. east from 3″	6	....	....	....	202	
do. from 6″ cast-iron to same at Maple	6	....	314	....	....	
do. at Maple	6	....	....	....	30	770
do. Main to Willow	8	....	....	360	....	360
Parker st., Main, I. O., to Oak, I. O	6	....	....	3,677	....	
do. south from Oak, I. O	4	....	....	920	....	
do. from 4″ to Boston road	6	....	....	1,374	....	5,971

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Parkwood st., south from Sumner ave......	6	....	....	388	....	
do. south from 6″ (see S. R.-13,330).......	1	21	....	....	....	409
Pasadena ave., White st. to Johnson.......	6	....	....	790	....	
do. south from Johnson st..............	6	....	....	219	....	1,009
Pasco st., I. O.. Essex to Old Bay road......	6	....	....	1,114	....	1,114
Patton st., east from Main.................	4	....	....	....	810	
do. from 4″ to Chestnut................	6	....	....	...	881	1,691
do. east from Main......................	6	....	....	16	....	16
Peabody lane, west from Willow st.........	2	....	224	....	....	224
Pearl st., Chestnut to Spring	6	....	....	....	992	992
do. Spring to Byers....	6	....	....	296	....	
do. Byers to Federal....................	10	....	....	2,010	....	2,306
Pearl st place, at Pearl st. (north)..........	4	....	...	....	6	
do. north from 4″.........................	3	....	232	....	....	
do. south from Pearl st. (P) (S. R.-8,496)...........................	1½	....	142	....	....	380
Pease st., Catharine to Bowles..............	2	245	....	....	....	245
Penacook ave., north from Carew st. (P) (S. R.-10,178).......................	1½	387	....	....	....	387
Pendleton ave., Walnut st. to Hancock.....	8	1,290	....	....	....	
do. Hancock st. to Eastern ave	6	....	....	1,356	....	2,646
Phœnix ave., east from Liberty st...........	6	....	....	502	....	502
Pine st., Walnut to Cedar (6″gate, north)..	6	....	....	1,679	....	
do. Cedar (6″ gate, north) to Maple (west line)........	16	1,894	....	....	....	
do. west from 16″ at Maple (west line)..	24	114	....	....	....	
do. from 24″ to Mill (north line produced)...........	16	766	....	....	....	4,453
Pine st.,I.O., Main to beyond Chapman Valve Mfg. Co.'s shops............... ...	6	....	....	1,807	....	1,807
Pine st. court................................	2	365	....	....	....	365
Pineywoods ave., Park boulevard to Jackson st...........	6	....	....	1,753	...	1,753
Plainfield st., north from Bradford...... ...	6	....	....	....	17	
do. from 6″, near Bradford, to John.....	4	....	....	....	276	
do. John to Fulton...	6	....	....	....	1,072	
do. West st. to Washburn................	6	....	....	....	609	
do. Washburn to Wason ave.............	8	....	....	....	4,482	6,456
Pleasant st..................................	4	500	....	....	...	500
Plymouth st.................................	6	....	....	....	500	500
Pomona st., Sumner ave. to Granada terrace (north)................................	6	....	....	612	....	612
Portland st..................................	6	....	....	666	....	666
Portsmouth st., east from Eastern ave......	6	....	....	243	....	243
Prince st., King to 1″ at Lebanon	2	367	....	....	....	
do. at Lebanon..........................	1	7	....	....	....	374
Princeton st., Bay to Cornell.................	6	....	....	1,877	....	1,877
Prospect st., Chestnut to Massasoit.........	4	....	....	....	614	614
do. west from Carew......................	6	....	....	46	...	46
Pynchon st., at Water........................	8	....	....	....	15	
do. east from 8″............	6	....	....	....	16	
do. east from 6″	3	....	....	....	800	
do. from 3″ to Main st.................	6	....	....	....	35	866
do. Main to opposite I. O. O. F. building.	8	....	....	547	....	547
Queen st., east from Walnut................	4	....	....	420	....	
do. from 4″ to Hancock..................	6	....	....	356	....	776

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET. Cement-Lined or Wrought-Iron. High Service	LENGTH IN FEET. Cement-Lined or Wrought-Iron. Low Service	LENGTH IN FEET. Cast-Iron. High Service	LENGTH IN FEET. Cast-Iron. Low Service	Totals in Feet.
Quincy st., Oak to 8″ at Hancock (west)....	6	....	....	1,427	....	
do. at Hancock (west)	8	....	....	11	....	
do. at Hancock (east)...................	8	....	....	8	....	
do. from 8″ at Hancock (east) to Eastern ave	6	....	....	1,370	....	
do. Eastern ave. to Colton st............	6	....	....	317	....	3,133
Railroad st., west from Main..............	6	....	....	....	234	234
do. from 6″ low service (gate between) to Water st..	6	....	....	357	....	357
Randall ave., north from Allen st.	4	....	....	416	....	
do. north from 4″ (see S. R.-15,121)......	1½	435	....	....	....	851
Randolph st., Maplewood terrace to Forest Park ave.,........................	6	....	....	703	....	703
Ranney st., south from Johnson	6	....	....	240	....	249
Raymond ave., north from Carew st. (P) (S.R.-8,618)......................	2	158	....	....	....	
do. north from private pipe..............	2	116	....	....	....	274
Reed st., south from State (P) (S. R.-5,637) (dead end).........................	2	690	....	....	....	
do. at Wilbraham road (for hydrant only)............................	6	....	....	9	....	699
Revere st................................	6	....	....	1,345	....	1,345
Richelieu place, east from Richelieu court, (P) (S. R.-8,627)..................	2	....	145	....	....	145
Richelieu court, south from Adams........	4	....	....	....	414	414
Ridgewood place.........................	6	....	....	587	....	587
Ridgewood terrace, west from Mulberry st. (top of hill)......................	4	....	....	245	....	245
Rimmon avenue, Gladwood to Atwater terrace..........	6	....	....	1,038	....	1,038
Ringgold st	6	....	....	....	753	753
Ripley ave................................	2	204	....	....	....	204
Riverview st., north from Chase ave...	6	....	....	120	....	120
Riverview terrace (south roadway), at Fort Pleasant ave.	6	....	....	26	....	26
Roseland st., west from Plainfield..........	6	....	....	....	851	851
Rowland ave., west from Plainfield st.......	6	....	....	....	372	372
Rush ave., south from Berkshire st.........	1½	273	....	....	....	273
Rutland avenue, north from Wilbraham road..............................	1½	141	....	....	....	
do. north from 1½″.............	3	37	....	....	....	178
Rutledge ave., east from Main st...........	6	....	....	....	530	530
Sackett ave..............................	1½	247	....	....	....	247
Salem st., Spring to Elliott..................	6	....	....	....	390	390
do. do.	6	....	....	434	....	434
Sanford st., east from Main................	6	....	....	....	70	
do. from 6″ to Market....................	4	....	....	....	90	
do. Market to Dwight.....................	6	....	....	....	392	552
do. Market to 4″ at Dwight...............	6	....	....	394	....	
do. at Dwight...........................	4	....	....	6	....	400
Sargeant st..............................	6	....	....	....	963	963
do. west from Main......................	6	....	....	194	....	194
School st., State to High	6	560	....	....	....	
do. High to Mulberry....................	4	937	....	....	....	1,497
Second st., I. O., south from Central ave....	6	....	....	250	....	250
Seventh st., west from Main........	4	....	702	....	....	
do. from 4″ to Fulton....................	6	....	....	....	224	926

MAIN AND DISTRIBUTION PIPE.—Continued.

LOCATION OF PIPE.	Size in Inches.	Length in Feet.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Seventh st., west from Main	6	....	....	88	....	88
Sewall st., Ludlow, southeast from 24″ main (see S. R.-14,079-097)	1¼	552	....	....	....	552
Shamrock ave., west from Oakland st	2	161	....	....	....	
do. south from Noel ave	6	....	....	229	....	
do. south from 6″ (see S. R.-13,367)	1¼	81	....	....	....	471
Sharon st	6	....	1,585	....	....	1,585
Shattuck ave., College avenue to Cortland street	6	....	....	967	....	967
Sheldon st., west from North Main	4	....	341	....	....	
do. from 4″ to Birnie ave	6	....	....	....	358	699
do. at North Main	6	....	....	12	....	12
Sheridan lane, south from Morgan st	2	....	162	....	....	
do. south from 2″	1½	....	54	....	....	216
Sherman st., State to Bay	4	....	....	1,600	....	
do. Bay to opposite No. 164 (P) (S. R.-3,615-3,701)	1	112	....	....	....	1,712
Silver st., east from Armory	4	....	....	593	....	593
Smith st., at Maple	6	....	....	4	....	
do. from 6″ to Dorne	4	....	....	291	....	
do. Dorne to Knox	6	....	....	204	....	499
Sorrento ave., north from Sumner	6	....	....	259	....	
do. north from Granada terrace (see S. R.-13,142-15,048)	1¼	228	....	....	....	487
Spencer ave., south from Sumner	1½	365	....	....	....	365
Spring st., State to Lyman	6	....	....	2,373	....	2,373
Springfield st., east from Chestnut (at brook) to 16″ cast-iron	20	....	585	....	....	
do. from 20″ cement-lined to the same from Van Horn reservoir through meadow	16	....	....	....	265	850
do. Chestnut to Armory	8	....	....	3,413	....	
do. Armory to Gladwood ave	12	....	....	153	....	
do. Gladwood ave. to Hamburg st	6	....	....	815	....	
do. connecting high and low services at hospital (see S. R.-5,547-A.)	4	....	....	9	....	4,390
Spruce st	4	735	....	....	....	735
Spruceland ave., Long Hill st. to Magnolia terrace	6	....	....	1,109	....	1,109
State st., Water to Main	6	....	....	....	993	
do. east from Main	6	....	....	....	50	
do. from 6″ near Main to Maple	8	....	....	....	772	
do. Maple to Elliott	6	....	....	....	783	
do. Elliott to Spring	6	....	349	....	....	2,947
do. from railroad (west) to Water	4	....	....	330	....	
do. Water to 12″ at Main (west)	8	....	....	923	....	
do. at Main (west)	12	....	....	12	....	
do. Main to Spring	16	....	....	2,026	....	
do. Spring to Federal	16	1,773	....	....	....	
do. Federal to Indian Orchard road (or Berkshire st.) (see Ludlow supply, "Main No. 1")	24	—	....	....	....	
do. Catharine to Eastern ave. (south of 24″ main—for Catharine st)	12	....	....	138	....	
do. west from College (south of 24″ main —for College st)	8	....	....	93	....	5,295
State st. ave., north from State st	1½	251	....	....	....	251

MAIN AND DISTRIBUTION PIPE.—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Stebbins st., State to Union	4	....	....	776	....	776
Stebbins st., Ludlow, west from Harris road	6	....	....	470	....	470
Sterling st., east from Armory	6	....	....	564	....	564
Sterns terrace, north from Central st	2	475	....	....	....	475
St. James ave., State st. to Bay	8	200	....	....	....	
do. Bay to 8″ at Dartmouth (south)	6	....	....	2,694	....	
do. at Dartmouth (south)	8	....	....	12	...	
do. at Dartmouth (north)	6	....	....	12	....	
do. from 6″ at Dartmouth (north) to 6″ near Lafayette	8	....	....	1,321	....	
do. from 8″ near Lafayette to Dorchester	6	....	....	174	....	4,413
Stockbridge st., Main to Willow	6	....	....	....	368	368
do. Maple to Willow	6	....	....	470	....	470
Suffolk st., south from Wilbraham road	6	....	....	1,385	....	1,385
Sullivan st., east from Armory	6	....	....	380	....	380
Summer st., Spring to Kibbe ave	8	....	....	1,886	....	
do. north to site of old Athol engine house	4	....	....	210	....	
do. Kibbe ave. to Armory st	8	....	....	1,160	....	3,256
Sumner ave., Long Hill st. to Fort Pleasant ave	6	....	....	701	....	
do. Fort Pleasant to Belmont	8	....	....	4,440	....	
do. Belmont to White st	8	....	....	2,396	....	
do. White st. to opposite No. 1079 (near Allen st.)	6	....	....	3,317	....	10,854
Symonds ave., Worthington st. to North Church ave	4	....	....	....	150	150
Talcott ave., east from Plainfield st	6	....	....	....	735	
do. from cast-iron to Fisk ave	6	....	42	....	....	777
Taylor st., Main to Dwight	8	....	....	843	....	
do. east from Dwight	8	....	....	383	....	
do. from 8″ to Chestnut	6	....	....	44	....	1,270
Temple st., Maple to School	4	....	....	1,137	....	1,137
Tenth st., Main to Chestnut	6	....	....	....	1,625	1,625
do. east from Main	6	....	....	25	....	25
Terrence st	4	815	....	....	....	815
Thomas street	6	....	....	....	632	632
do. at North Main	6	....	....	44	....	44
Thompson st., State to St. James avenue	8	1,540	....	....	....	
do. St. James avenue to Worthington st	8	....	....	716	....	2,256
Townsley ave	6	....	....	174	....	174
Tracy ave, Liberty st. to near Franklin	6	....	....	432	....	
do. from 6″ to Franklin st	2	30	....	....	....	462
Trinity place, south from Sumner ave	6	....	....	16	....	16
Tyler st., Oak to Hancock	6	1,440	....	....	....	
do. Hancock to Colton	6	....	....	1,689	....	3,129
Union st., railroad to 4″ cast-iron near Water st	4	....	386	....	....	
do. from 4″ cement-lined to Water	4	....	....	....	49	
do. Water to Maple	6	....	....	....	2,123	2,558
do. Main to Willow	6	....	....	356	....	
do. Maple to School	6	...	....	665	....	
do. School to Hancock	8	3,925	....	....	....	
do. Hancock to Colton	6	....	....	1,686	....	6,632

MAIN AND DISTRIBUTION PIPE.—Continued.

LOCATION OF PIPE.	Size in Inches.	Length in Feet.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Van Horn Supply, as follows:—						
from gatehouse through dam	12	....	....	....	200	
from gatehouse through dam	16	...	....	....	200	
from 16″ at dam westerly through meadow to Springfield st	20	....	1,800	....	....	2,200
west from Armory st. main to north side of lower basin (high service feeder)	6	....	....	253	....	
east from Armory st. main to north side of upper basin (for ice-house uses)	6	....	....	111	....	364
Vassar street	6	....	....	542	....	542
Ventura st	6	....	....	960	....	960
Vernon st	6	....	....	....	910	910
do. west from Main	8	....	....	83	....	83
Vine st	6	....	....	....	823	823
do. west from Main	6	....	....	169	....	169
Vinton st., Liberty to near Franklin	6	....	....	641	....	641
Walden st., Dickinson to Commonwealth av.	6	....	....	302	....	
do. east from Commonwealth ave. (see S. R.–12,275)	1½	202	....	....	....	504
Walker st	6	....	619	....	....	619
do. Water to Gardner ave	8	....	....	450	....	
do. Gardner ave. to railroad	6	....	....	223	....	673
Walnut st., State to Union	12	700	....	....	....	
do. Union to Cedar	8	2,087	....	....	....	
do. Cedar to Hancock	8	....	....	830	....	
do. Hancock to U. S. Watershops	12	....	....	1,510	....	5,127
Walter st., east from Birnie ave	2	....	251	....	....	251
do. at North Main	6	....	....	41	....	41
Waltham ave., south from Wilbraham road	6	....	....	657	....	657
Wareham st., Orange to Grand	4	....	....	595	....	595
Warner place	6	....	....	797	....	797
Warren ave., west from Hancock st	2	112	....	....	....	112
Warriner ave., east from Locust st	6	....	....	360	....	360
Warwick street, east from Heywood (P) (S. R.–6,720)	6	....	....	386	....	
do. completion to Armory	6	....	....	867	....	
do. for hydrants (P) (S. R.–6,720)	4	....	....	24	....	1,277
Washburn st., west from east line of Plainfield	6	....	....	....	1,453	1,453
Washington st., east from Commonwealth ave	6	....	....	228	....	228
Wason ave., west from North Main st. (less cast-iron opposite shops of Baush Machine Tool Co.)	8	....	631	....	....	
do. opposite above named shops	8	....	....	....	76	
do. from 8″ to Fisk ave	12	....	....	....	213	
do. Fisk ave., to near Plainfield st.	10	....	....	....	972	
do. from 10″ to Plainfield st.	8	....	....	....	15	1,907
do. at Birnie ave. (west)	8	....	....	93	....	
do. at Fisk ave. (east)	12	....	....	15	.. .	
do. at Fisk ave. (west)	8	....	....	14	....	122
Water st., north from Hampden	6	....	....	....	32	
do. Hampden to Gardner	12	....	4,810	....	....	
do. Walker to Lombard (for fire reservoir, opposite Walker st.)	6	....	....	....	105	4,947
do. Railroad st. to Hampden	6	....	....	332	....	
do. State to Mechanic	8	....	....	703	....	
do. Margaret to Walker	8	....	....	588	....	1,623

MAIN AND DISTRIBUTION PIPE—CONTINUED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Water st., I O., east from Oak	8	....	....	50	....	
do. east from 8″	6	....	....	210	....	260
Waverly st., No. Main to near Chestnut	8	....	860	....	....	
do. near Chestnut to 12″	8	...	....	....	33	
do. from 8″ cast-iron to Chestnut	12	....	....	....	15	908
do. at North Main (east and west)	6	....	....	31	....	31
Weaver ramble, north from Rimmon ave	6	....	....	267	....	267
Webster st.	6	....	....	668	....	668
Welcome place	6	....	....	252	. ..	252
Wellesley st.	6	....	....	481	....	481
Wellington st., south from Wilbraham road	6	....	....	1,063	....	1,063
Wendell ave., east from Main st.	6	....	....	....	465	465
West st., west from Plainfield	6	....	....	....	139	139
Westernview st., Mountainview to Forest Park ave.	6	....	....	690	....	690
Westford ave., Wilbraham road to King st.	6	....	....	2,160	....	2,160
Westminster st., State to Bay	6	1,100	....	....	....	
do. Bay to St. James ave.	6	....	....	920	....	2,020
White st., Allen to hydrant, south of Dawson ave. (opposite house No. 244)	6	....	....	2,587	....	
do. from 6″ to opposite house No. 382	8	....	....	1,250	....	
do. Sumner ave. to Priscilla place	12	....	....	277	....	
do. south from 12″ (see S. R.–15,334)	1	22	....	....	....	4,136
Whitney ave., west from Water st	4	....	....	....	395	395
Whittier ave.	6	....	....	1,264	....	1,264
Wight place, east from Water st.	6	....	....	....	277	
do. east from 6″	1½	....	157	....	....	434
Wilbraham ave., so. from Wilbraham road	6	....	....	1,597	....	
do. 6″ to King st.	8	....	....	542	....	
do. north from Alden st.	8	....	....	27	....	2,166
Wilbraham road, Eastern ave. to near Carlisle st. (west)	12	....	....	3,927	....	
do. from 12″ to opposite House of Good Shepherd	8	....	....	1,631	....	
do. east from 8″ (see S. R.–12,284–12,285).	1¼	421	....	....	....	
do. west from Reed st. (P) (S. R.–7,329)	1¼	153	....	....	....	6,132
Wilcox st., Main to 8″ at Water (east)	6	....	....	....	965	
do. at Water (east)	8	....	....	....	3	
do. at Water (west)	8	....	....	....	3	
do. from 8″ at Water (west) to railroad	4	....	...	....	457	
do. west from 4″	1½	....	108	....	....	1,536
Willard ave., near State st., to Shattuck ave.	6	....	....	714	....	
do. at Shattuck ave. (north)	6	....	....	8	....	722
William st., railroad to Water	6	....	523	....	....	
do. east from Main	6	....	....	....	23	
do. east from 6″	4	....	227	....	....	
do. from 4″ to Dale	6	....	....	....	388	1,161
do. Water to Main	6	....	....	971	....	
do. east from Main	6	....	....	248	....	1,219
Willow st., State to Peabody lane	6	....	....	....	630	
do. at Peabody lane (south)	4	....	....	....	3	
do. from 4″ at Peabody lane (south) to Park st.	3	....	....	....	153	
do. north from Hubbard ave. (see S. R.–13,375)	1	....	56	....	....	842

MAIN AND DISTRIBUTION PIPE—CONCLUDED.

LOCATION OF PIPE.	Size in Inches.	LENGTH IN FEET.				Totals in Feet.
		Cement-Lined or Wrought-Iron.		Cast-Iron.		
		High Service	Low Service	High Service	Low Service	
Willow st., State to Hubbard ave	10	....	....	1,220	....	1,220
Wilmont st., east from Dickinson	6	....	....	735	....	735
Winchester st	4	543	....	....	....	543
Windsor st.,	6	....	....	716	....	716
Winthrop st	6	....	....	....	697	697
Wolcott st., east from Liberty	6	....	....	306	....	
do. east from 6″ (see S. R.-13,981)	1	9	....	....	....	315
Woodbine ave., north from Hickory st	4	....	....	327	....	
do. north from 4″ (P) (S. R.-8,185)	1¼	192	....	....	....	519
Woodside terrace, north from Forest Park ave	4	....	....	308	....	
do. north from 4″ (see S. R.-12,137)	1	20	....	....	....	
do. north from Belmont ave	6	....	....	449	....	777
Woodworth ave	2	457	....	....	....	457
Worcester ave., east from Plainfield st	6	....	....	....	811	
do. from 6″ to Fisk ave	4	....	....	....	52	863
Worcester st., I. O., Holly to Chestnut	6	....	....	640	....	
do. east from Chestnut	6	....	....	303	....	
do. west from Myrtle	6	....	....	114	....	
do. Myrtle to Oak	6	....	....	735	....	
do. Oak to Pine	2	593	....	....	....	
do. Pine to near Lyons	6	....	....	1,352	....	3,737
Worthington st., Symonds ave. to Main st	6	....	....	....	151	
do. Main to Spring	6	....	....	....	2,114	2,265
do. Cook's ave. (west) to Main st	8	....	....	475	....	
do. Main to Dwight	8	....	....	795	....	
do. Dwight to near No. 432-434	10	....	....	559	....	
do. near No. 432-434 to Bowdoin	8	....	....	4,672	....	
do. Bowdoin to St. James ave	12	....	....	1,654	....	8,155
Yale st., Dartmouth to Monmouth	6	....	....	1,666	....	1,666
York st., west from Main	8	....	281	....	....	
do. west from wrought-iron	8	....	....	....	183	
do. from 8″ to Hanover (west) (see note)	6	....	....	....	497	961
(NOTE:—6″ connected at Hanover with 8″ high service main in that street, and actually high service west of east end of jail.)						
York st. ave., south from York st	1¼	....	174	....	....	174
Totals, December 1, 1906	....	125,541	43,506	519,091	139,957	828,095

APPENDIX IX.

SUMMARY OF MAIN AND DISTRIBUTION PIPE

IN USE DECEMBER 1, 1906.

BY SIZES.

SIZES.	HIGH SERVICE.			LOW SERVICE.			Totals in Feet.
	Cement-Lined or Wrought-Iron.	Cast-Iron.	Total.	Cement-Lined or Wrought-Iron.	Cast-Iron.	Total.	
1-inch...........	662	....	662	126	....	126	788
1¼-inch..........	7,397	....	7,397	1,097	....	1,097	8,494
1½-inch..........	6,711	....	6,711	461	....	461	7,172
2-inch...........	15,849	....	15,849	2,091	....	2,091	17,940
3-inch...........	940	....	940	682	1,177	1,859	2,799
4-inch...........	5,299	41,759	47,058	5,814	11,489	17,303	64,361
6-inch...........	14,136	261,978	276,114	7,448	99,824	107,272	383,386
8-inch...........	10,317	97,444	107,761	7,589	16,700	24,289	132,050
10-inch..........	....	8,374	8,374	....	972	972	9,346
12-inch..........	1,782	25,500	27,282	8,084	8,997	17,081	44,363
16-inch..........	9,874	21,831	31,705	6,014	788	6,802	38,507
20-inch..........	....	1,999	1,999	4,100	10	4,110	6,109
24-inch..........	52,574	6,331	58,905	....	....	....	58,905
30-inch..........	....	40,319	40,319	....	....	....	40,319
36-inch..........	....	13,556	13,556	....	....	....	13,556
Totals.......	125,541	519,091	644,632	43,506	139,957	183,463	828,095

BY MATERIAL.

MATERIAL.	HIGH SERVICE.		LOW SERVICE.		TOTALS.	
	Feet.	Miles.	Feet.	Miles.	Feet.	Miles.
Cement-Lined or Wrought-Iron	125,541	23.78	43,506	8.24	169,047	32.02
Cast-Iron....................	519,091	98.31	139,957	26.51	659,048	124.82
Totals....................	644,632	122.09	183,463	34.75	828,095	156.84

APPENDIX X.

GATES SET IN 1906.

(INCLUDING THOSE ADDED.)

ONE INCH.

Marengo park, at Dickinson street (automatic flush),	High,	1	
		—	1

ONE AND ONE-QUARTER INCH.

Cherry lane, at Mill street,	High,	1	
York street avenue, at York street,	Low,	1	
		—	2

ONE AND ONE-HALF INCH.

Randall avenue, end of 6″ pipe,	High,	1	
		—	1

TWO INCH.

Belmont avenue, near Sumner (north) (flush),	High,	1	
College avenue, opposite No. 95 (flush),	High,	1	
Elm street, below railroad, end of 6″ pipe,	Low,	1	
Genesee street, at Liberty (flush),	High,	1	
Hampden st., I. O., near No. 87 (acct. of 1905) (flush),	High,	1	
Hickory street, opposite Woods hall (flush),	High,	1	
Homer street, opposite schoolhouse (flush),	High,	1	
King street, west of No. 315 (flush),	High,	1	
Magnolia terrace, north of No. 57 (flush) (for sewer, north),	High,	1	
Magnolia terrace, north of No. 57 (flush) (for sewer, south),	High,	1	
Malden street, at Grand (flush),	High,	1	
Maple street, at George,	High,	1	
Maple street, at Maple avenue (flush) (for sewer, north),	High,	1	
Maple street, at Maple avenue (flush) (for sewer, south),	High,	1	
Palmer avenue, near No. 68 (flush),	High,	1	
Richelieu street, opposite No. 36 (flush),	Low,	1	
		—	16

TWO AND ONE-HALF INCH.

Barber street, end of pipe, blow-off,	High,	1	
Boston road, end of pipe, blow-off,	High,	1	
Coleman street, end of pipe, blow-off,	High,	1	
		—	3

THREE INCH.

Armory street, for schoolhouse (private),	High,	1	
Bliss street, for Nos. 526-532 Main (private),	High,	1	
Hampden street, I. O., near Holly (flush),	High,	1	
Mountainview street, near No. 61 (flush),	High,	1	
State street, for No. 140 (Smith) (private),	High,	1	
Temple street, for Nos. 5-15 (private),	High,	1	
Union street, for Nos. 591-593 Main (Smith) (private),	High,	1	
Whittier avenue, at Longfellow terrace (flush),	High,	1	
Willow st., for rear Nos. 133-141 State (Smith) (private),	High,	1	
		—	9

FOUR INCH.

Bridge street, for Norcross & Cameron (private),	High,	1	
Howard street, at railroad, for hydrant,	High,	1	
Lyman street, midway Chestnut and Spring, for hydrant,	High,	1	
North Main street, at Wason avenue (north),	Low,	1	
White street, at Gordon (for sprinkler hydrant),	High,	1	
		—	5

SIX INCH.

Bay path, N. E. cor. Berkshire street, for hydrant,	High,	1	
Bay path, midway, for hydrant,	High,	1	
Bay path, end of pipe, for hydrant,	High,	1	
Birnie avenue, for Springfield Metal Body Co. (Smith) (private),	High,	1	
Birnie avenue, for Springfield Metal Body Co.,	Low,	1	
Boston road, at Barber street (east),	High,	1	
Bryant street, end of pipe, for hydrant,	High,	1	
Byers street, at State, for hydrant,	High,	1	
Byers street, opposite Nos. 38-40, for hydrant,	High,	1	
Byers street, opposite No. 66, for hydrant,	High,	1	
Byers street, opposite No. 100, for hydrant,	High,	1	
Chestnut street, at Berkshire, I. O., for hydrant,	High,	1	

Clayton street, at Plainfield,	Low,	1
Clayton street, at Nos. 38-40, for hydrant,	Low,	1
Collins street, at Logan,	High,	1
Converse street, at Sumner avenue,	High,	1
Converse street, end of pipe, for hydrant,	High,	1
Courtland street, opposite No. 66,	High,	1
Dexter street, at Knox,	High,	1
Dexter street, at George,	High,	1
Dexter street, at George, for hydrant,	High,	1
Dexter street, midway, for hydrant,	High,	1
Dexter street, at Knox, for hydrant,	High,	1
Donald street, at North Main, for hydrant,	High,	1
Donald street, at Birnie avenue, for hydrant,	High,	1
Elm street, west of railroad, for hydrant,	Low,	1
Forest Park avenue, at Westernview street,	High,	1
Hampden street, I. O., midway Holly and Chestnut, for hydrant,	High,	1
Hampden street, I. O., at Chestnut (west),	High,	1
Hampden street, I. O., at Chestnut (east),	High,	1
Hillman street, for No. 35 (Smith) (private),	High,	1
Home street, at Liberty,	High,	1
Home street, end of pipe, for hydrant,	High,	1
Horace street, at Dickinson,	High,	1
Howes street, at Sumner avenue,	High,	1
Howes street, S. E. corner Sumner ave., for hydrant,	High,	1
Knox street, at Mill,	High,	1
Knox street, at Smith (north),	High,	1
Knox street, at Newman (north),	High,	1
Knox street, between Newman and Dexter, for hydrant,	High,	1
Ladd street, at Logan,	High,	1
Lester street, at Sumner avenue,	High,	1
Lester street, end of pipe, for hydrant,	High,	1
Liberty street, at Carew, for hydrant,	High,	1
Liberty street, at Woodmont, for hydrant,	High,	1
Liberty street, at Home, for hydrant,	High,	1
Longfellow terrace, at Whittier avenue,	High,	1
Longfellow terrace, midway, for hydrant,	High,	1
Lyman street, N. W. corner Chestnut, for hydrant (Smith),	High,	1
Main street, for Nos. 370-376 (Smith) (private),	High,	1

Maple street, front of No. 241, for hydrant,	High,	1
Maple street, front of No. 385, for hydrant,	High,	1
Massachusetts avenue, near Wilbraham road, for hydrant,	High,	1
Massachusetts avenue, south of Nos. 39-41, for hydrant,	High,	1
Mill street, between Knox and Cherry lane, for hydrant,	High,	1
Mill street, for Springfield Webbing Co. (private),	High,	1
Mill street, opposite Maple, for hydrant,	High,	1
Pearl street, at Byers, for hydrant,	High,	1
Pearl street, east of No. 156, for hydrant,	High,	1
Pearl street, west of No. 196, for hydrant,	High,	1
Pearl street, west of No. 234, for hydrant,	High,	1
Pearl street, east of No. 260, for hydrant,	High,	1
Pearl street, N. W. corner Federal,	High,	1
Pynchon street, at Main, for hydrant (Smith),	High,	1
Pynchon street, near I. O. O. F. building, for hydrant,	High,	1
Rowland avenue, at Plainfield street,	Low,	1
Rowland avenue, end of pipe, for hydrant,	Low,	1
Smith street, at Knox,	High,	1
Smith street, at Knox, for hydrant,	High,	1
Smith street, at Maple,	High,	1
Waltham avenue, end of pipe, for hydrant,	High,	1
Westernview street, at angle, for hydrant,	High,	1
Westernview street, at Forest Park avenue, for hydrant,	High,	1
Westernview street, at Forest Park avenue,	High,	1
White street, at Priscilla place,	High,	1
Whittier avenue, at Hiawatha street (north),	High,	1
Whittier avenue, N. E. cor. Hiawatha street, for hydrant,	High,	1
Whittier avenue, S. E. corner Priscilla place,	High,	1
Whittier avenue, at Priscilla place (north), for hydrant,	High,	1
Windsor street, at Pine (Smith),	High,	1
Windsor street, at Knox,	High,	1
Windsor street, at Pine, for hydrant,	High,	1
Windsor street, midway, for hydrant,	High,	1
Windsor street, at Knox, for hydrant,	High,	1
		— 84

EIGHT INCH.

Bay path, at Berkshire street (Smith),	High,	1
Bryant street, at Sumner avenue,	High,	1
Chestnut street, I. O., at Hampden (north),	High,	1

Dickinson street, at Orange,	High,	1	
Elm street, at Water,	Low,	1	
Frost street, at Byers,	High,	1	
Liberty street, at Home (north),	High,	1	
Logan street, at Alden,	High,	1	
Logan street, at Collins,	High,	1	
Mill street, at Maple (west),	High,	1	
Pynchon street, west of I. O. O. F. building,	High,	1	
Springfield street, for City Hospital (private),	High,	1	
Sumner avenue, at White street,	High,	1	
White street, at No. 350,	High,	1	
White street, at Sumner avenue (north),	High,	1	
Whittier avenue, at Belmont,	High,	1	
		—	16

TEN INCH.

Byers street, near State,	High,	1	
Byers street, at No. 66,	High,	1	
Byers street, at Pearl,	High,	1	
Pearl street, at Byers (east),	High,	1	
Pearl street, at No. 176,	High,	1	
Pearl street, at No. 242,	High,	1	
Pearl street, at Federal,	High,	1	
		—	7

TWELVE INCH.

White street, at Sumner avenue (south),	High,	1	
		—	1

SIXTEEN INCH.

Dickinson street, at Mill,	High,	1	
George street, at Pine,	High,	1	
Mill street, east of Knox,	High,	1	
Mill street, at Maple (east),	High,	1	
Maple street, at Mill,	High,	1	
Maple street, at George,	High,	1	
		—	6

Total number of gates added in 1906, ... 151

APPENDIX XI.

GATES TAKEN OUT IN 1906.

(INCLUDING THOSE ABANDONED.)

ONE AND ONE-QUARTER INCH.

George street, at Pine,	High,	1	
Windsor street, at Pine,	High,	1	
		—	2

TWO INCH.

Dexter street, at George,	High,	1	
Dexter street, at Knox,	High,	1	
Ridgewood terrace, at Mulberry street,	High,	1	
Sumner avenue, at Belmont (west),	High,	1	
		—	4

FOUR INCH.

College avenue, at Shattuck street (flush),	High,	1	
Maple street, for Springfield Webbing Co.,	High,	1	
Pearl street, at Federal,	High,	1	
Pearl street, at Byers, for hydrant,	High,	1	
Smith street, at Maple,	High,	1	
		—	5

SIX INCH.

Byers street, at Pearl,	High,	1	
Ferry street, at Chestnut,	Low,	1	
Franklin street, at Chestnut,	Low,	1	
		—	3

Total number of gates deducted in 1906,		14

Number of gates December 1, 1905,		2,240
Number of gates added in 1906,	151	
Number of gates deducted in 1906,	14	
Net addition in 1906,		137
Total number of gates December 1, 1906,		2,377

APPENDIX XII.

FIRE HYDRANTS SET IN 1906.

HIGH SERVICE.

Bay path, N. E. corner Berkshire street,	1
Bay path, midway,	1
Bay path, end of pipe (905 ft, from Berkshire street),	1
Bryant street, end of pipe,	1
Byers street, N. E. corner State,	1
Byers street, opposite Nos. 38-40,	1
Byers street, opposite No. 66,	1
Byers street, opposite No. 100,	1
Chestnut street, I. O., N. W. corner Berkshire,	1
Converse street, end of pipe (457 ft. from Sumner avenue),	1
Dexter street, N. E. corner George,	1
Dexter street, midway,	1
Dexter street, N. E. corner Knox,	1
Donald street, N. E. corner Birnie avenue,	1
Donald street, N. W. corner No. Main street,	1
Franklin street, S. E. corner Main,	1
Hampden street, I. O., midway Holly and Chestnut,	1
Home street, end of pipe (591 ft. from Liberty street),	1
Knox street, between Smith and Dexter,	1
Lester street, end of pipe (517 ft. from Sumner avenue),	1
Liberty street, N. W. corner Carew,	1
Liberty street, N. W. corner Woodmont,	1
Liberty street, N. W. corner Home,	1
Longfellow terrace, north side, midway,	1
Lyman street, N. E. corner Main,	1
Lyman street, N. W. corner Chestnut,	1
Lyman street, midway Chestnut and Spring,	1
Main street, front of No. 415,	1
Maple street, front of No. 241,	1
Maple street, front of No. 385,	1
Margaret street, opposite power house,	1
Massachusetts avenue, at Wilbraham road,	1
Massachusetts avenue, south of No. 39,	1

Mill street, opposite Maple,	1	
Mill street, between Knox and Cherry lane,	1	
Pearl street, opposite Byers,	1	
Pearl street, east of No. 156,	1	
Pearl street, west of No. 196,	1	
Pearl street, west of No. 234,	1	
Pearl street, east of No. 260,	1	
Pearl street, N. W. corner Federal,	1	
Pynchon street, N. W. corner Main,	1	
Pynchon street, near I. O. O. F. building,	1	
Smith street, N. W. corner Knox,	1	
Waltham avenue, end of pipe (656 ft. from Wilbraham road),	1	
Westernview street, at angle,	1	
Westernview street, N. W. corner Forest Park avenue,	1	
White street, S. W. corner Priscilla place,	1	
Whittier avenue, N. W. corner Hiawatha street,	1	
Whittier avenue, S. E. corner Priscilla place,	1	
Windsor street, N. E. corner Pine,	1	
Windsor street, midway,	1	
Windsor street, opposite Knox,	1	
	—	53

LOW SERVICE.

Clayton street, front of Nos. 38-40,	1	
Elm street, below railroad bridge,	1	
Rowland avenue, west of No. 96,	1	
	—	3

Total number of city hydrants added in 1906,	56

APPENDIX XIII.

FIRE HYDRANTS TAKEN OUT IN 1906.

HIGH SERVICE.

Chestnut and Berkshire streets, I. O., N. E. corner,	1	
Chestnut and Lyman streets, N. E. corner,	1	
Franklin street, S. E. corner Main,	1	
Lyman street, N. E. corner Main,	1	
Lyman street, midway Chestnut and Spring,	1	
Main street, front of No. 415,	1	
Maple street, front of No. 241,	1	
Margaret street, opposite power house,	1	
Mill street, opposite Maple,	1	
Pearl street, opposite Byers,	1	
Pearl street, at angle,	1	
Pearl street, front of No. 242,	1	
Pearl street, N. W. corner Federal,	1	
Pynchon street, N. W. corner Main,	1	
	—	14

LOW SERVICE.

Chestnut street, west side, opposite Liberty,	1	
Ferry street, front of No. 96,	1	
Ferry street, front of No. 206,	1	
	—	3
Total number of city hydrants deducted in 1906,		17

Number of city hydrants, as per report December 1, 1905,		1,035
Number of city hydrants added in 1906,	56	
Number of city hydrants deducted in 1906,	17	
Net addition, 1906,		39
Total number of city hydrants December 1, 1906,		1,074
High service,	814	
Low service,	260	

Number of private hydrants December 1, 1905,	100	
Number of private hydrants added in 1906,	0	
Total number of private hydrants, December 1, 1906,		100
Total number of hydrants connected with the works, December 1, 1906,		1,174

APPENDIX XIV.

FIRE HYDRANTS

IN USE DECEMBER 1, 1906.

C stands for Chapman, Co. for Corey, M for Matthews, P for Perkins, s. con. for steamer connection, and r. g. for rubber gate.

The pressure is in pounds per square inch, and was ascertained by actual trial with a pressure gauge.

All hydrants may be considered 4″, with two nozzles, unless otherwise mentioned.

No.	High or Low.	Location.	Make.	Pressure.
1.	H.	S. W. corner Main and Cypress streets,	C	105
2.	L.	N. W. corner Main and Cypress streets,	C	37
3.	H.	N. W. corner Cypress street and Cypress avenue,	C	105
4.	H.	N. E. corner Gray's avenue and Cypress street,	C	105
5.	L.	Gray's avenue, west side, midway,	C	35
6.	L.	Boylston street, east side, between Cypress and Emery streets,	C	37
7.	H.	N. E. corner Cypress and Boylston streets,	C	105
8.	L.	N. E. corner Fulton and Cypress streets,	C	36
9.	H.	N. E. corner Fulton and Cypress streets,	C	105
10.	H.	N. E. corner Fulton and Emery streets,	C	110
11.	L.	N. E. corner Fulton and Emery streets,	C	38
12.	H.	N. E. corner Emery and Boylston streets,	C	110
13.	H.	Emery street, north side, opposite Gray's avenue,	C	110
14.	H.	S. W. corner Main and Emery streets,	C	110
15.	H.	N. W. corner Main and Clinton streets,	C	110
16.	L.	Clinton street, south side, midway,	C	37
17.	L.	N. E. corner Fulton and Clinton streets,	C	37
18.	L.	N. E. corner Fulton and Vine streets,	C	38
19.	L.	Vine street, south side, midway,	C	37
20.	H.	N. W. corner Main and Vine streets,	C	110
21.	H.	N. W. corner Main and Holyoke streets,	C	110
22.	L.	Holyoke street, north side, midway,	C	37
23.	L.	N. E. corner Fulton and Holyoke streets,	C	37
24.	L.	N. E. corner Fulton and Auburn streets,	C	37
25.	L.	Auburn street, north side, midway,	C	35

No.	High or Low.	Location.	Make.	Pressure.
26.	H.	S. W. corner Main and Auburn streets,	C	115
27.	H.	S. W. corner Main and Seventh streets,	C	115
28.	L.	Seventh street, north side, midway,	P	35
29.	L.	N. E. corner Fulton and Seventh streets,	C	38
30.	L.	N. E. corner Fulton and Sargeant streets,	C	37
31.	L.	Sargeant street, south side, midway, 6″ s. con.,	C	38
32.	H.	N. W. corner Main and Sargeant streets,	C	115
33.	H.	N. W. corner No. Main and Bradford streets,	C	110
34.	L.	Bradford street, north side, midway,	C	35
35.	L.	N. E. corner Fulton and Bradford streets,	C	36
36.	L.	N. E. corner Fulton and John streets,	C	36
37.	L.	S. W. corner Plainfield and John streets,	C	36
38.	L.	Plainfield street, west side, near Plymouth,	C	36
39.	L.	Plainfield street, east side, at Fulton,	C	27
40.	L.	Fulton street, opp. M. Dunn's house, Round Hill,	C	23
41.	L.	N. W. corner Plainfield and Lowell streets,	C	42
42.	L.	Lowell street, north side, midway,	C	45
43.	L.	Lowell street, north side, at end of street,	C	45
44.	L.	Washburn street, north side, at end of street,	C	40
45.	L.	Washburn street, north side, midway,	C	43
46.	L.	N. W. corner Plainfield and Washburn streets,	C	43
47.	L.	Orchard street, N. W. corner Plainfield,	C	43
48.	L.	Orchard street, north side, midway,	C	43
49.	L.	Orchard street, north side, at end of street, 6″ s. con.,	C	40
50.	L.	Newland street, north side, midway, 6″ s. con.,	C	44
51.	L.	Newland street, N. W. cor. Plainfield, 6″ s. con.,	C	44
52.	L.	Clyde street, N. W. corner Plainfield, 6″ s. con.,	C	44
53.	L.	Clyde street, north side, front of No. 84,	C	
54.	L.	Roseland street, north side, end of pipe, 275 ft. west of Nos. 54-56,	C	42
55.	L.	Roseland street, north side, midway,	C	42
56.	L.	Plainfield street, east side, opposite Clayton,	C	42
57.	L.	Clayton street, front of Nos. 38-40, 6″ s. con.,	Co.	
58.	L.	Rowland avenue, west of No. 96, 6″ s. con.,	Co.	
59.	L.	Abbe avenue, front of No. 20,	C	
60.	L.	Abbe avenue, N. W. corner Plainfield street,	C	43
61.	L.	Abbe avenue, just east of No. 154, 6″ s. con.,	C	42
62.	L.	Talcott avenue, N. E. corner Plainfield street,	C	43

No.	High or Low.	Location.	Make.	Pressure.
63.	L.	—Talcott avenue, north side, midway,	C	43
64.	L.	—N. W. corner Fisk and Talcott avenues,	C	43
65.	H.	—S. W. corner Fisk and Worcester avenues,	C	120
66.	L.	—N. W. corner Fisk and Worcester avenues,	C	42
67.	L.	—Worcester avenue, north side, midway,	C	42
68.	L.	—N. E. corner Plainfield street and Worcester ave.,	C	44
69.	L.	—N. E. corner Plainfield street and Demond ave.,	C	43
70.	L.	—Demond avenue, north side, midway,	C	42
71.	H.	—S. W. corner Fisk and Demond avenues,	C	118
72.	H.	—Fisk avenue, east end of Holyoke Card and Paper Co.'s shop,	C	118
73.	H.	—S. W. corner Fisk and Hyde avenues,	C	118
74.	H.	—Hyde avenue, S. E. corner Plainfield street,	C	118
75.	L.	—N. E. corner Plainfield street and Hyde avenue,	C	42
76.	L.	—S. E. corner Plainfield street and Wason avenue,	C	42
77.	H.	—S. W. corner Wason and Fisk avenues, 6″ 4-way,	C	120
78.	L.	—S. E. corner Wason and Fisk avenues,	M	42
79.	L.	—Wason avenue, north side, opposite No. 31,	C	42
80.	H.	—Birnie avenue, S. E. corner Wason, 6″ s. con.,	C	115
81.	L.	—North Main street, opposite Wason avenue,	C	39
82.	H.	—Birnie avenue, 200 feet north of Grace street,	C	115
83.	L.	—Birnie avenue, opposite Grace street,	C	42
84.	H.	—S. E. corner Birnie avenue and Grace street,	C	118
85.	H.	—S. W. corner No. Main and Grace streets,	C	120
86.	H.	—N. W. corner No. Main and Walter streets,	C	115
87.	H.	—Donald street, N. W. corner No. Main, 6″ s. con., r. g.,	C	
88.	H.	—Donald street, N. E. corner Birnie avenue, 6″ s. con.,	C	
89.	H.	—Birnie avenue, S. E. corner Alfred street, 6″,	P	120
90.	H.	—Birnie avenue, S. E. corner Douglas street,	C	120
91.	H.	—Birnie avenue, south of preceding,	C	122
92.	L.	—Birnie ave., between the two preceding, 6″ s. con.,	C	44
93.	H.	—Douglas street, N. W. corner No. Main,	C	120
94.	H.	—Portland street, N. W. corner No. Main, 6″ s. con.,	C	
95.	H.	—Medford street, N. E. corner Birnie ave., 6″ s. con., r. g.,	C	
96.	H.	—N. E. corner No. Main and Grove streets,	C	120
97.	L.	—N. W. corner No. Main and Hooker streets,	C	40

No.	High or Low.	Location.	Make.	Pressure.
—.	H.	Hooker street, for Street Railway Co., 6″ s. con. (3 private),	C	115
98.	H.	East Hooker street, N. E. cor. No. Main, 6″ s. con.,	C	120
99.	H.	Greenwich street, north side, midway, 6″ s. con.,	C	
100.	L.	Huntington street, N. E. cor. Birnie ave., 6″ s. con.,	C	44
101.	L.	N. E. corner No. Main and Calhoun streets,	C	41
102.	H.	S. E. corner No. Main and Calhoun streets,	C	120
103.	L.	N. E. corner No. Main street and Jefferson ave.,	C	41
104.	H.	Jefferson avenue, midway No. Main and North streets, 6″ s. con.,	C	120
105.	L.	Sheldon street, S. E. corner Birnie ave., 6″ s. con.,	C	44
106.	L.	Arch street, north side, front of No. 36,	C	40
107.	H.	N. W. corner No. Main and Arch streets,	P	120
108.	L.	Bancroft street, south side, midway,	C	41
109.	H.	N. E. corner No. Main and Bancroft streets,	C	120
110.	L.	N. E. corner No. Main and Bancroft streets,	C	41
111.	H.	S. E. corner No. Main and Osgood streets,	C	115
112.	L.	Morgan street, south side, midway, 1-way,	C	41
113.	H.	N. E. corner No. Main and Morgan streets,	C	120
114.	L.	S. E. cor. No. Main and Morgan streets, 6″ s. con.,	C	41
115.	H.	S. E. corner No. Main and Church streets,	C	120
116.	L.	Carew place, east side, end of pipe, front of No. 15, 5″ s. con.,	C	40
117.	H.	S. E. corner Main and Carew streets,	C	120
118.	H.	S. E. corner Main and Bond streets,	C	120
119.	L.	N. E. corner Main and Bond streets,	C	40
120.	L.	Bond street, north side, midway,	C	40
121.	L.	Bond street, north side, front of Nos. 110-112,	C	41
122.	L.	N. W. corner Chestnut and Patton streets,	C	35
123.	L.	Patton street, north side, front of No. 54,	C	37
124.	L.	N. E. corner Main and Patton streets,	C	36
125.	H.	S. E. corner Main and Patton streets,	C	115
126.	H.	N. E. corner Main and Essex streets,	C	108
127.	L.	N. E. corner Main and Essex streets,	P	35
128.	L.	Essex street, north side, opposite No. 51,	P	39
129.	L.	Essex street, north side, front of No. 98,	P	39
130.	L.	N. W. corner Chestnut and Tenth streets,	C	32
131.	L.	Tenth street, north side, opposite Nos. 105-107,	C	39
132.	L.	Tenth street, north side, front of Nos. 54-56,	C	39

No.	High or Low.	Location.	Make.	Pressure.
133.	H.	N. E. corner Main and Tenth streets,	C	100
134.	H.	N. E. corner Main and Greenwood streets,	C	124
135.	L.	Greenwood street, north side, front of No. 42,	C	39
136.	L.	Greenwood street, north side, opposite No. 83,	C	39
137.	L.	Greenwood street, north side, front of No. 118,	C	38
138.	H.	S. W. corner Chestnut and Franklin streets,	C	100
139.	H.	Franklin street, south side, front of Nos. 111-113,	C	100
140.	H.	Franklin street, south side, opposite Nos. 84-90,	C	100
141.	H.	Franklin street, south side, front of No. 37,	C	100
142.	L.	N. E. corner Main and Franklin streets,	C	37
143.	H.	Franklin street, S. E. corner Main, 6″ s. con.,	Co.	105
144.	H.	S. E. corner Main and Congress streets,	C	105
145.	L.	Congress street, north side, opposite No. 33,	C	39
146.	L.	Congress street, north side, opposite No. 97,	C	39
147.	L.	N. W. corner Chestnut and Sharon streets,	P	30
148.	L.	Sharon street, north side, front of No. 92,	C	39
149.	L.	Sharon street, north side, front of No. 52,	C	39
150.	H.	S. E. corner Main and Sharon streets,	C	110
151.	H.	S. E. corner Main and Ferry streets,	C	115
152.	H.	Ferry street, south side, front of No. 89, 6″ s. con.,	C	100
153.	H.	Ferry street, south side, front of No. 155, 6″ s. con., r. g.,	C	
154.	H.	Ferry street, south side, front of No. 225, 6″ s. con., r. g.,	C	
155.	H.	Chestnut street, opposite Ferry, 6″,	C	100
156.	H.	Chestnut street, opposite No. 275, 6″ s. con.,	C	100
157.	H.	Chestnut street, opposite Sharon, 6″ s. con.,	C	100
158.	H.	Chestnut street, east side, opposite Congress,	C	100
159.	H.	Chestnut street, S. E. corner Franklin, 6″ s. con.,	C	100
160.	H.	Franklin street, north side, west of Charles, 6″ s. con.,	C	100
161.	H.	Chestnut street, opposite Greenwood, 6″ s. con.,	C	103
162.	H.	Chestnut street, opposite Tenth, 6″ s. con.,	C	103
163.	H.	N. E. cor. Chestnut and Linden streets, 6″ s. con.,	C	103
164.	L.	Linden street, near S. E. corner Chestnut,	C	34
165.	L.	Linden street, south side, opposite No. 46,	C	33
166.	L.	S. W. corner Cass and Linden streets,	C	26
167.	L.	S. W. corner Cass and Everett streets,	C	25
168.	L.	Everett street, south side, midway,	C	31

No.	High or Low.	Location.	Make.	Pressure.
169.	H.	Chestnut street, opposite Patton, 6″ s. con.,	C	105
170.	L.	S. E. corner Chestnut and Everett streets,	C	35
171.	H.	Chestnut street, opposite Bond,	C	105
172.	L.	Arbor street, east side, front of No. 40,	C	26
173.	H.	Prospect street, S. W. corner Carew, 6″ s. con.,	C	85
174.	H.	Massasoit street, N. E. corner Carew,	C	105
175.	L.	N. W. cor. Carew and Massasoit streets, 6″ s. con.,	C	30
176.	H.	Chestnut street, S. E. corner Carew,	C	115
177.	L.	N. E. corner Chestnut and Carew streets,	C	37
178.	L.	N. W. corner Chestnut and Grosvenor streets,	C	38
179.	L.	Grosvenor street, north side, midway,	C	39
180.	H.	North street, N. E. corner Carew,	C	120
181.	L.	N. E. corner Carew and North streets, 6″ s. con.,	C	40
182.	L.	N. E. corner North and Grosvenor streets,	C	39
183.	L.	N. E. corner North and Ringgold streets,	C	39
184.	L.	S. W. corner North and Morgan streets,	C	39
185.	L.	Ringgold street, south side, midway,	C	38
186.	L.	S. W. corner Chestnut and Ringgold streets,	C	38
187.	L.	N. W. corner Chestnut and Hebron streets,	C	38
188.	L.	Hebron street, north side, midway,	C	39
189.	L.	S. W. corner Prospect and Massasoit streets,	C	28
190.	L.	N. W. corner Chestnut and Allendale streets,	C	39
191.	L.	Allendale street, north side, midway,	C	39
192.	L.	N. W. corner North and Osgood streets,	C	38
193.	L.	S. W. corner North and Bancroft streets,	P	40
194.	L.	Brookline avenue, N. W. corner Chestnut street, 6″ s. con.,	C	38
195.	L.	S. W. corner Chestnut and Bancroft streets,	C	37
196.	L.	Lexington avenue, N. W. corner Massasoit street,	C	31
197.	L.	N. W. corner Montmorenci and Massasoit streets,	C	31
198.	L.	Montmorenci street, north side, midway,	C	33
199.	L.	N. W. corner Chestnut street and Jefferson ave.,	C	37
200.	L.	S. W. corner North street and Jefferson avenue,	C	40
201.	H.	N. W. corner North street and Jefferson avenue, 6″ s. con.,	C	110
202.	L.	Calhoun street, north side, at North,	C	40
203.	L.	Alexander street, N. E. corner North,	C	40
204.	L.	S. W. corner Chestnut and Waverly streets,	C	36
205.	L.	Harriet street, N. E. corner North, 6″ s. con.,	C	40

No.	High or Low.	Location.	Make.	Pressure.
206.	H.	Dover street, north side, east end of pipe, 100 ft. east of No. 44, 6″ s. con.,	C	120
207.	L.	Chestnut street, west side, near Springfield,	C	36
208.	H.	Merwin street, N. W. corner Chestnut, 5″ s. con.,	C	110
209.	H.	Eagle street, N. W. corner Chestnut, 5″ s. con.,	C	110
210.	H.	Springfield street, opposite city hospital, 6″ s. con.,	C	100
211.	H.	Springfield street, midway Chestnut and Armory, 6″ s. con.,	C	65
212.	H.	Atwater terrace, north side, end of pipe, 75 ft. north of No. 251,	C	78
213.	H.	Rimmon avenue, south side, at Atwater terrace,	P	68
214.	H.	Green lane, midway, 6″ s. con., r. g.,	C	
215.	H.	Rimmon avenue, S. W. corner Gladwood,	P	65
216.	H.	Hamburg street, N. W. corner Farnsworth,	C	40
217.	H.	Farnsworth street, front of No. 51,	C	40
218.	H.	Farnsworth street, front of No. 133,	C	40
219.	H.	Los Angeles avenue, N. E. cor. Hamburg street,	C	38
220.	H.	Los Angeles avenue, front of No. 41,	C	40
221.	H.	Springfield street, S. W. corner Armory,	P	60
222.	H.	Gold street, 288 feet east of Armory,	C	
223.	H.	Sterling street, opposite Nos. 41-43,	C	
224.	H.	Bevier street, N. E. corner Armory,	C	60
225.	H.	Bevier street, front of No. 48,	C	
226.	H.	Beauchamp street, end of pipe, front of No. 48,	C	
227.	H.	Armory street, front of truant school, 6″ s. con.,	C	55
228.	H.	Mooreland avenue, end of pipe, front of No. 121, 6″ s. con.,	C	
229.	H.	Mooreland avenue, front of No. 47, 6″ s. con., r. g.,	C	
230.	H.	N. E. corner Carew and Armory streets,	C	55
231.	H.	Grover street, north side, midway Armory and Liberty, 6″,	C	57
232.	H.	Grover street, N. W. corner Liberty, 6″ s. con.,	C	55
233.	H.	Liberty street, N. W. corner Carew, 6″ s. con., r. g.,	C	
234.	H.	Liberty street, N. W. corner Woodmont, 6″ s. con., r. g.,	C	
235.	H.	Liberty street, N. W. corner Home, 6″ s. con.,	Co.	
236.	H.	Home street, end of pipe, west of No. 20, 6″ s. con.,	Co.	
237.	H.	Newbury street (Sherman road), S. E. cor. Carew,	C	54

No.	High or Low.	Location.	Make.	Pressure.
238.	H.	Clantoy street, east side, end of pipe, opposite No. 66, 6″ s. con.,	C	55
239.	H.	Cherrelyn avenue, S. E. corner Phœnix, 6″ s. con.,	C	55
240.	H.	Cleveland street, N. W. corner Liberty, 6″ s. con.,	C	55
241.	H.	Cleveland street, N. E. corner Armory, 6″ s. con.,	C	60
242.	H.	Sullivan street, N. E. corner Armory, 6″ s. con.,	C	60
243.	H.	S. E. corner Liberty and Armory streets,	C	55
244.	H.	Armory street, east side, opp. Wolcott, 6″ s. con.,	C	61
245.	H.	Liberty street (about 200 feet west of Wolcott street), 6″ s. con.,	C	60
246.	H.	Genesee street, N. W. corner Liberty, 6″ s. con.,	C	73
247.	H.	Liberty street, front of Gurdon Bill's, 6″ s. con.,	C	74
248.	H.	Tracy avenue, S. E. corner Franklin street,	C	80
249.	H.	Columbia terrace, west side, at end of pipe, front of Nos. 22-24, 6″ s. con.,	C	83
250.	H.	S. W. corner Liberty and Heywood streets,	C	90
—.	H.	Warwick street, N. E. corner Heywood (private),	C	93
—.	H.	Warwick street, east of preceding (2 private),	C	93
251.	H.	Warwick street, north side, opposite Taber-Prang Co.'s shop, 6″ s. con.,	C	93
252.	H.	Liberty street, south side, opposite Webster,	C	95
253.	H.	N. E. corner Liberty and Vinton streets,	C	95
254.	H.	Vinton street, S. E. corner Franklin,	C	90
255.	H.	Webster street, S. W. corner Franklin, 6″ s. con.,	C	85
256.	H.	Cass street, S. E. corner Franklin,	C	95
257.	H.	Franklin street, north side, midway Cass and Charles, 6″,	C	105
258.	H.	Liberty street, south side, opposite Cass,	C	100
259.	H.	Liberty street, south side, front of No. 225, 6″ s. con.,	C	94
260.	H.	Liberty street, north side, front of No. 200,	C	110
261.	H.	S. E. corner Liberty and Charles streets,	C	110
262.	L.	Charles street, west side, midway Franklin and Liberty, 6″ s. con.,	C	30
263.	H.	Charles street, west side, near B. & A. R. R. freight house,	C	108
264.	H.	S. E. corner Chestnut and Liberty streets,	C	110
265.	H.	N. E. corner Chestnut street and driveway to B. & A. R. R. freight house,	C	115

No.	High or Low.	Location.	Make.	Pressure.
266.	H.	S. W. corner Chestnut and Liberty streets,	C	115
267.	H.	N. W. corner Chestnut and Liberty streets, 6″,	C	112
268.	L.	Liberty street, north side, opposite Chase Lumber Company's planing mill,	P	40
269.	H.	Liberty street, south side, front of railroad station,	C	120
270.	L.	Liberty street, south side, opposite No. 74, 5″ s. con.,	C	36
271.	L.	Liberty street, south side, east of Cooley's hotel,	C	40
272.	H.	Liberty street, south side, east of Cooley's hotel,	C	115
273.	L.	Liberty street, N. E. corner Main, 6″ s. con.,	C	37
274.	H.	S. E. corner Main and Liberty streets, 6″ s. con.,	C	110
275.	H.	Main street, east side, just north of arch,	C	110
276.	L.	Railroad street, S. W. corner Main, 6″ s. con.,	C	37
277.	L.	Railroad street, at driveway of Massasoit house, 6″ s. con.,	C	37
278.	H.	Railroad street, S. E. corner Water, 6″ s. con.,	C	
279.	H.	S. E. corner Water and Hampden streets, 6″ s. con., r. g.,	C	108
280.	H.	Hampden street, north side, midway, 6″ s. con., r. g.,	C	108
281.	L.	S. W. corner Main and Hampden streets, 6″ s. con.,	C	37
282.	L.	Fort street, south side, midway,	C	37
283.	L.	S. E. corner Water and Fort streets,	C	38
284.	H.	Worthington street, north side, opposite Cook's ave., 6″ s. con.,	C	105
285.	H.	Worthington street, north side, front of No. 102, 6″ s. con., r. g.,	C	105
286.	L.	S. W. corner Main and Worthington streets,	C	37
287.	L.	N. W. corner Main and Bridge streets, 1-way,	C	38
288.	H.	Bridge street, north side, opposite Bond place,	C	105
289.	H.	Bond place, west side, south end,	C	105
290.	H.	Bridge street, north side, opp. No. 43, 6″ s. con.,	C	105
291.	L.	N. E. corner Water and Bridge streets,	C	39
292.	H.	N. W. corner Water and Bridge streets,	C	110
293.	L.	Wight place, north side, at end of pipe, opposite No. 25,	C	38
294.	L.	N. E. corner Water and Vernon streets,	C	36
295.	L.	Vernon street, north side, midway,	C	37
296.	H.	N. W. corner Main and Vernon streets, 6″ s. con.,	C	110
—.	H.	Besse place (private),	C	110

No.	High or Low.	Location.	Make.	Pressure.
297.	L.	Main street, west side, front of No. 360, 6″ s. con.,	C	39
298.	L.	Main street, west side, front of No. 388, 6″ s. con.,	C	39
299.	L.	S. W. corner Main and Vernon streets, 1-way,	C	38
300.	H.	Pynchon street, N. W. corner Main, 6″ s. con., r. g.,	C	110
301.	L.	S. W. corner Main and Pynchon streets, 1-way,	C	39
302.	H.	Pynchon street, south side, front of City Hall park, 6″ 3-way,	C	110
303.	H.	City Hall avenue, west side, midway,	C	110
304.	H.	Pynchon street, north side, west of I. O. O. F. building, 6″ s. con., r. g.,	C	
305.	L.	N. E. corner Water and Pynchon streets,	C	34
306.	L.	Court street, south side, near Water,	C	39
307.	L.	Court street, south side, midway,	C	39
308.	H.	Court street, south side, opposite site of city hall, 6″,	P	110
309.	L.	N. W. corner Main and Court streets, 6″ s. con.,	C	36
310.	H.	S. W. corner Main and Court streets,	C	110
311.	H.	N. W. corner Main and Elm streets, 6″,	P	110
312.	L.	S. W. corner Main and Elm streets, 6″ s. con.,	C	34
313.	H.	Elm street, S. W. corner Court square,	C	115
314.	L.	Elm street, south side, midway,	C	34
315.	L.	N. E. corner Water and Elm streets,	C	37
316.	L.	Elm street, north side, below railroad bridge, 6″ s. con., r. g.,	C	
317.	H.	State street, west of N. Y., N. H. & H. R. R.,	C	115
318.	H.	N. E. corner Water and State streets, 6″,	P	115
319.	L.	S. E. corner Water and State streets,	C	39
320.	H.	State street, north side, front of No. 52, 6″ s. con.,	C	115
321.	L.	State street, south side, front of No. 71, 6″ s. con.,	C	40
322.	H.	State street, north side, near court house,	C	115
323.	L.	S. W. corner Main and State streets, 1-way,	C	35
324.	H.	N. W. corner Main and Bliss streets,	C	120
325.	L.	S. W. corner Main and Bliss streets, 6″ s. con.,	C	39
326.	L.	Bliss street, south side, front of No. 29,	C	37
327.	L.	Bliss street, south side, front of Nos. 57-59,	C	37
328.	L.	Water street, N. E. corner Bliss,	C	34
329.	H.	S. E. corner Water and Bliss streets,	C	120
330.	H.	Bliss street, south side, at railroad, 6″ s. con.,	C	41

No.	High or Low.	Location.	Make.	Pressure.
331.	H.	Howard street, north side, near N. Y., N. H. & H. R. R.,	C	120
332.	L.	Howard street, south side, near N. Y., N. H. & H. R. R.,	P	26
333.	H.	Mechanic street, north side, near railroad,	C	120
334.	H.	Water street, N. E. corner Howard,	C	120
335.	L.	N. W. corner Water and Howard streets,	C	37
336.	L.	Howard street, south side, front of No. 43,	C	39
337.	H.	N. W. corner Main and Howard streets,	P	120
338.	L.	S. W. corner Main and Howard streets, 1-way,	C	40
339.	L.	S. W. corner Main and Union streets,	C	38
340.	L.	Union street, south side, midway Main and Water,	C	33
341.	L.	S. E. corner Water and Union streets,	C	41
342.	L.	Wilcox street, north side, near railroad,	C	40
343.	L.	S. E. corner Water and Wilcox streets,	C	41
344.	L.	Wilcox street, south side, front of No. 47,	C	36
345.	H.	N. W. corner Main and Wilcox streets,	C	108
346.	L.	S. W. corner Main and Wilcox streets,	C	38
347.	H.	S. W. corner Main and William streets, 1-way,	C	110
348.	H.	William street, north side, front of No. 120,	C	110
349.	H.	William street, north side, opposite No. 83,	C	105
350.	L.	N. W. corner Water and William streets,	P	40
351.	L.	William street, north side, near railroad,	P	38
352.	L.	Banks place, end of pipe, opposite No. 20, 6″ s. con., r. g.,	C	
353.	L.	Margaret street, north side, near railroad,	C	36
354.	H.	Margaret street, opposite street railway power house, 6″ s. con.,	Co.	110
355.	H.	Water street, S. W. corner Margaret, 6″ s. con.,	C	110
356.	L.	N. E. corner Water and Margaret streets,	C	35
357.	L.	Margaret street, south side, opposite Nos. 42-44,	C	40
358.	H.	N. W. corner Main and Margaret streets,	C	115
359.	L.	S. W. corner Main and Margaret streets,	C	40
360.	L.	S. W. corner Main and Fremont streets, 1-way,	C	40
361.	L.	Fremont street, south side, front of No. 41,	C	40
362.	L.	N. E. corner Water and Fremont streets,	C	41
363.	L.	Whitney avenue, north side, end of pipe, west of No. 28,	C	37
364.	H.	Water street, opposite Loring,	C	110

No.	High or Low.	Location.	Make.	Pressure.
365.	H.	Loring street, north side, front of No. 34,	C	115
366.	H.	N. W. corner Main and Loring streets,	C	115
367.	L.	Lombard street, north side, opposite No. 25,	C	36
368.	H.	S. W. corner Water and Walker streets,	C	110
369.	H.	Walker street, south side, near Walker's shop,	C	110
370.	L.	Walker street, north side, midway, 6″ s. con.,	C	36
371.	H.	Walker street, south side, near railroad,	C	110
372.	L.	N. E. corner Water and Gardner streets,	P	37
373.	H.	Gardner street, south side, opposite Gardner ave.,	C	110
374.	L.	Gardner street, north side, front of No. 96,	C	36
375.	H.	S. E. corner Gardner and Hanover streets,	C	110
376.	L.	N. E. corner Hanover and Norwood streets,	P	40
377.	L.	Norwood street, south side, midway,	C	40
378.	L.	N. W. corner Main and Norwood streets,	C	40
379.	L.	S. W. corner Main and Broad streets, 6″ s. con.,	C	37
380.	L.	S. E. corner Hanover and Broad streets, 6″ s. con.,	C	40
381.	H.	Hanover street, east side, near Broad,	C	105
382.	H.	Elmwood street, north side, east end of Barney & Berry's shop, 6″ s. con., r. g.,	C	
383.	H.	N. W. corner Hanover and York streets,	C	108
384.	L.	York street, north side, opposite No. 41,	C	42
385.	L.	N. W. corner Main and York streets,	P	40
386.	H.	Main street, east side, opposite No. 962,	M	110
387.	H.	Main street, east side, below Bemis & Call's shops,	C	110
388.	H.	S. W. corner Main and Long Hill streets,	C	105
389.	H.	Main street, east side, below Long Hill, 6″ s. con.,	C	110
390.	H.	Main street, east side, at South End bridge, 6″ s. con.,	C	110
391.	H.	Long Hill street, east side, near brick yard,	C	93
392.	H.	Warner place, north side, midway, 6″ s. con.,	C	60
393.	H.	Long Hill street, S. E. corner Warner place,	C	55
394.	H.	N. E. corner Long Hill street and Sumner ave.,	C	52
395.	H.	Long Hill street, N. E. corner Spruceland ave.,	C	53
396.	H.	Spruceland avenue, S. W. corner Cherryvale,	P	53
397.	H.	Long Hill street, N. E. corner Cherryvale avenue, 6″ s. con.,	C	52
398.	H.	Long Hill street, north of No. 325, 6″ s. con., r. g.,	C	
399.	H.	Long Hill street, at Main, 6″ s. con., r. g.,	C	

No.	High or Low.	Location.	Make.	Pressure.
400.	H.	Pineywoods avenue, N. W. corner Washington boulevard, 6″ s. con.,	C	52
401.	H.	Pineywoods ave., N. E. cor. Florentine gardens,	C	53
402.	H.	Spruceland ave., S. W. corner Magnolia terrace,	C	57
403.	H.	Magnolia terrace, just south of No. 83,	C	52
404.	H.	Firglade avenue, east side, north of Spruceland,	C	55
405.	H.	Pineywoods ave., N. E. corner Firglade, 6″ s. con.,	C	55
406.	H.	Forest Park avenue, N. W. corner Pineywoods,	C	53
407.	H.	Jackson street, east side, south of Nos. 51-61,	C	55
408.	H.	S. E. corner Sumner avenue and Jackson street,	C	50
409.	H.	S. E. corner Sumner and Firglade avenues,	C	50
410.	H.	Magnolia terrace, at Sumner avenue,	C	53
411.	H.	N. W. corner Sumner and Fort Pleasant avenues,	C	55
412.	H.	Maplewood terrace, N. E. corner Fort Pleasant avenue, 6″ s. con.,	C	58
413.	H.	Maplewood terrace, north side, corner Randolph street and Riverview terrace, 5″ s. con.,	C	53
414.	H.	Maplewood terrace, N. W. corner Forest Park ave., 5″ s. con.,	C	50
415.	H.	S. E. corner Forest street and Forest Park avenue,	C	50
416.	H.	Forest Park avenue, N. E. corner Sumner,	C	55
417.	H.	Greenleaf street, N. E. corner Sumner avenue,	C	57
418.	H.	Sumner ave., south side, at Forest Park, 6″ s. con.,	C	55
419.	H.	Churchill street, N. E. corner Sumner avenue,	C	50
420.	H.	Churchill street, S. E. corner Garfield,	C	47
421.	H.	Greenleaf street, S. E. corner Garfield,	C	55
422.	H.	Fairfield street, north side, midway,	C	54
423.	H.	Belmont avenue, S. E. corner Litchfield street,	C	55
424.	H.	Litchfield street, N. E. corner Garfield,	C	54
425.	H.	N. W. corner Belmont avenue and Oakland street,	C	55
426.	H.	Oakland street, west side, south of No. 46,	C	50
427.	H.	Kenwood park, N. W. corner Belmont avenue, 6″ s. con.,	C	56
428.	H.	Beaumont street, N. W. corner Belmont avenue, 6″ s. con.,	C	56
429.	H.	Brace street, N. W. corner Belmont avenue, 6″ s. con.,	C	53
430.	H.	Continental avenue, east side, end of pipe, north of No. 37, 6″ s. con.,	C	43

No.	High or Low.	Location.	Make.	Pressure.
431.	H.	Parkwood street, front of No. 23,	C	43
432.	H.	Cliftwood avenue, S. E. corner Sumner, 6″ s. con.,	C	40
433.	H.	Lenox street, at end of same, 6″ s. con.,	C	47
434.	H.	Sumner avenue, S. W. corner Belmont, 6″ s. con.,	C	45
435.	H.	Dickinson street, about 300 ft. south of Sumner avenue, 6″ s. con.,	C	45
436.	H.	Belmont avenue, north side, opposite Commonwealth, 6″ s. con.,	C	43
437.	H.	Ormond street, N. E. corner Belmont avenue, 6″ s. con.,	C	43
438.	H.	Commonwealth avenue, east side, 50 ft. south of Hollywood street, 6″ s. con.,	C	22
439.	H.	Hollywood street, N. E. cor. Dickinson, 6″ s. con.,	C	45
440.	H.	Groveland avenue, N. E. corner Dickinson street, 6″ s. con.,	C	41
441.	H.	Fairview street, N. E. corner Groveland avenue, 6″ s. con.,	C	42
442.	H.	Commonwealth avenue, east side, 175 ft. south of Washington street, 6″ s. con.,	C	21
443.	H.	Belvidere avenue, end of pipe, south of No. 59, 6″ s. con.,	C	
444.	H.	Belmont avenue, N. E. corner Longfellow terrace, 6″ s. con., r. g.,	C	
445.	H.	Longfellow terrace, north side, midway, 6″ s. con.,	Co.	
446.	H.	Whittier avenue, N. E. corner Hiawatha street, 6″ s. con.,	Co.	
447.	H.	Lyndale street, end of pipe, north of No. 43, 6″ s. con., r. g.,	C	
448.	H.	Belmont avenue, N. W. corner Bryant street, 6″ s. con., r. g.,	C	
449.	H.	Bryant street, end of pipe, 200 ft. from Belmont avenue, 6″ s. con.,	Co.	
450.	H.	Sumner avenue, south side, east of Lyndale street, 6″ s. con.,	C	40
451.	H.	Converse street, end of pipe, opposite No. 42, 6″ s. con.,	Co.	
452.	H.	Lester street, end of pipe, opposite No. 44, 6″ s. con.,	Co.	

No.	High or Low.	Location.	Make.	Pressure.
453.	H.	—Sumner avenue, south side, opposite Lester street, 6″ s. con.,	C	45
454.	H.	—Sorrento ave., N. E. corner Sumner, 6″ s. con.,	C	37
455.	H.	—Pomona ave., opposite Granada terrace, 6″ s. con.,	C	43
456.	H.	—Granada terrace, in grass plot at Sorrento avenue, east,	C	46
457.	H.	—Granada terrace, N. E. corner Dickinson street, 6″ s. con.,	C	47
458.	H.	—Berendo avenue, S. E. corner Alderman street, 6″ s. con.,	C	51
459.	H.	—Ventura street, S. E. corner Alderman,	C	53
460.	H.	—Wilmont street, opposite Nos. 57-59, 6″ s. con.,	C	
461.	H.	—Dickinson street, west side, opposite Alderman, 6″ s. con.,	C	52
462.	H.	—Kenwood park, west side, midway, 6″ s. con.,	C	54
463.	H.	—Kenwood park, S. W. cor. Dickinson street, 6″ s. con.,	C	54
464.	H.	—Johnson street, at Dickinson, 6″,	C	50
465.	H.	—Mason place, west side, end of pipe, opposite No. 21, 6″ s. con.,	C	53
466.	H.	—Oakland street, S. W. corner Dickinson,	C	50
467.	H.	—Crystal avenue, S. W. corner Dickinson street, 6″ s. con.,	C	51
468.	H.	—Hall street, S. W. corner Dickinson,	C	51
469.	H.	—Hall street, west side, midway,	C	56
470.	H.	—N. W. corner Belmont avenue and Hall street,	C	55
471.	H.	—Forest street, east side, about midway,	C	56
472.	H.	—N. E. corner Belmont avenue and Keith street,	C	55
473.	H.	—Keith street, west side, front of No. 53,	C	54
474.	H.	—S. W. corner Keith and Dickinson streets,	C	55
475.	H.	—Euclid avenue, S. W. corner Dickinson street,	C	52
476.	H.	—Euclid avenue, west side, midway,	C	44
477.	H.	—Mountainview street, N. W. corner Westernview, 6″ s. con.,	C	45
478.	H.	—Westernview street, at angle, 6″ s. con.,	Co.	
479.	H.	—Westernview street, N. E. corner Forest Park ave., 6″ s. con.,	Co.	
480.	H.	—Belmont avenue, N. W. corner Marengo park,	C	45
481.	H.	—Marengo park, at La Verne avenue, 6″ s. con.,	C	50

No.	High or Low.	Location.	Make.	Pressure.
482.	H.	Marengo park, S. W. corner Dickinson street, 6″ s. con.,	C	50
483.	H.	Bellevue avenue, S. W. corner Dickinson street,	C	52
484.	H.	Dickinson street, opposite Orange, 6″ s. con., r. g.,	C	
485.	H.	Bellevue avenue, S. E. corner La Verne,	P	43
486.	H.	Belmont avenue, east side, opposite No. 146,	C	45
487.	H.	Woodside terrace, north of Belmont ave., 6″ s. con.,	C	53
488.	H.	Leyfred terrace, N. E. corner Belmont avenue, 6″ s. con.,	C	68
489.	H.	Leyfred terrace, end of pipe, opposite No. 56, 6″ s. con.,	C	
490.	H.	Chase avenue, N. W. corner Riverview street, 6″ s. con.,	C	50
491.	H.	Riverview terrace, in park at Fort Pleasant avenue, s. con.,	C	60
492.	H.	Edgeland avenue, north side, midway,	C	82
493.	H.	Chase ave., N. E. corner Fort Pleasant, 6″ s. con.,	C	67
494.	H.	Forest Park avenue, N. E. corner Fort Pleasant,	C	70
495.	H.	Belmont avenue, west side, at Fort Pleasant,	C	90
496.	H.	Mill street, south side, midway Locust and Main,	M	100
497.	H.	Locust street, N. E. corner Mill, 6″ s. con.,	C	96
498.	H.	Mill street, north side, front of No. 110,	P	75
499.	H.	Pine street, north side, at Mill,	C	65
500.	H.	Mill street, front of No. 185, 6″ s. con., r. g.,	C	
501.	H.	Warriner avenue, north side, end of pipe, front of Nos. 32-34,	C	96
502.	H.	Palmer avenue, north side, 250 ft. east of Locust street, 6″ s. con.,	C	100
503.	L.	Main street, east side, at Locust,	M	25
504.	H.	Main street, N. E. corner Acushnet ave., 6″ s. con.,	C	105
505.	L.	Acushnet avenue, north side, front of No. 38,	C	25
506.	L.	Acushnet avenue, north side, front of No. 76,	C	25
507.	H.	Main street, N. E. corner Rutledge ave., 6″ s. con.,	C	110
508.	L.	Rutledge avenue, north side, front of No. 34,	P	30
509.	L.	Wendell avenue, end of pipe, east of No. 39, 6″ s. con.,	C	30
510.	H.	Main street, east side, opposite Broad, 6″ s. con.,	C	110
511.	H.	Main street, N. E. corner Marble, 6″ s. con.,	C	110
512.	L.	Marble street, N. E. corner Main, 6″ s. con.,	C	40

No.	High or Low.	Location.	Make.	Pressure.
513.	L.	—Marble street, north side, midway, 6″ s. con.,	C	33
514.	L.	—Marble street, north side, end of pipe, front of No. 108, 6″ s. con.,	C	32
515.	H.	—Main street, east side, opposite Gardner, 6″,	C	108
516.	L.	—Main street, east side, opposite Gardner,	P	41
517.	H.	—Main street, east side, opposite Arlington ave.,	C	110
518.	H.	—Main street, east side, opposite Lombard, 6″,	C	110
519.	H.	—Main street, S. E. corner Adams, 6″,	C	105
520.	L.	—Adams street, south side, midway,	C	37
521.	L.	—Ashmun street, east side, opposite Adams,	C	31
522.	L.	—Central street, north side, opp. No. 63, 6″ s. con.,	C	35
523.	H.	—Central street, north side, midway Main and Morris, 6″ s. con.,	C	100
524.	H.	—N. E. corner Main and Central streets,	C	105
525.	H.	—N. E. corner Main and Morris streets,	C	108
526.	L.	—Morris street, north side, opposite No. 40,	C	37
527.	L.	—Morris street, east side, at angle,	C	34
528.	L.	—Winthrop street, N. W. corner Dale, 6″ s. con.,	C	35
529.	L.	—Winthrop street, north side, midway, 6″ s. con.,	C	37
530.	H.	—N. E. corner Main and Winthrop streets,	C	105
531.	H.	—N. E. corner Main and William streets,	C	110
532.	H.	—William street, south side, midway Main and Dale,	C	115
533.	L.	—N. W. corner William and Dale streets,	C	42
534.	H.	—N. E. corner Willow street and Hubbard avenue,	C	118
535.	H.	—S. E. corner Main street and Hubbard avenue,	C	115
536.	H.	—N. E. corner Main and Union streets,	C	118
537.	H.	—N. E. corner Union and Willow streets, 6″ s. con., r. g.,	C	115
538.	L.	—S. E. corner Union and Dale streets,	C	42
539.	H.	—Park street, S. W. corner Willow, 6″ s. con., r. g.,	C	115
540.	H.	—N. E. corner Main and Park streets,	C	110
541.	H.	—S. E. corner Main and Cross streets,	C	115
542.	H.	—N. E. corner Willow and Cross streets, 6″ s. con.,	C	110
543.	H.	—Cross street, south side, midway Maple and Willow,	C	115
544.	H.	—S. E. corner Main street and Crossett avenue,	C	115
—.	H.	—Willow street, in yard of Geo. W. Tapley (private),	C	
545.	H.	—S. E. corner Main and Stockbridge streets,	C	115
546.	L.	—Stockbridge street, S. W. corner Willow, 6″ s. con.,	C	39
547.	H.	—N. E. corner Willow and Stockbridge streets, 6″,	C	105

No.	High or Low.	Location.	Make.	Pressure.
548.	H.	—Stockbridge street, south side, just west of Smith & Wesson's shop,	P	110
549.	H.	—Stockbridge street, south side, just east of Smith & Wesson's shop,	P	110
550.	H.	—S. E. corner State and Willow streets,	P	115
551.	L.	—State street, S. W. corner Willow, 6″ s. con.,	C	41
552.	H.	—N. E. corner State and Dwight streets,	C	107
553.	L.	—N. W. corner State and Dwight streets,	C	35
554.	H.	—N. W. corner State and Market streets,	C	118
555.	H.	—N. E. corner State and Main streets, 6″ s. con.,	C	118
556.	H.	—N. E. corner Main and Sanford streets, 6″ s. con.,	C	110
557.	L.	—S. W. corner Market and Sanford streets,	C	40
558.	H.	—Sanford street, N. E. corner Market, 6″ s. con.,	C	110
559.	L.	—Sanford street, north side, midway Market and Dwight,	C	40
560.	H.	—Sanford street, north side, near Dwight,	P	112
561.	L.	—S. W. corner Dwight and East Court streets,	C	42
562.	H.	—N. W. corner Dwight and East Court streets,	P	110
563.	L.	—Dwight street, S. W. corner New, 6″ s. con.,	C	38
564.	H.	—N. W. corner East Court and New streets,	C	115
565.	H.	—S. W. corner East Court and Market streets,	C	115
566.	H.	—East Court street, S. E. corner Main, 6″ s. con., r. g.,	C	115
567.	H.	—Main street, east side, front of No. 445, 6″ s. con.,	C	117
568.	H.	—Main street, east side, front of No. 415, 6″ s. con.,	Co.	118
569.	H.	—Townsley avenue, N. E. corner Main street, 6″ s. con., r. g.,	C	110
570.	H.	—Main street, east side, opposite Pynchon, 6″ s. con., r. g.,	C	110
571.	H.	—N. W. corner Market street and Townsley avenue,	C	105
572.	L.	—S. W. corner Harrison avenue and Market street,	C	39
573.	H.	—S. E. corner Main street and Harrison avenue,	C	110
574.	H.	—Harrison ave., N. E. corner Main street, 6″ s. con., r. g.,	C	110
575.	H.	—Main street, east side, opposite Vernon, 6″,	M	110
576.	H.	—Harrison ave., north side, opp. Market street, 6″,	C	105
577.	H.	—Harrison ave., north side, front of No. 44, 6″, 3-way,	P	115
578.	H.	—Harrison ave., south side, front of No. 37, 6″,	P	115

No.	High or Low.	Location.	Make.	Pressure.
579.	H.	Harrison ave., N. W. cor. Dwight street, 6″, 4-way,	C	110
580.	L.	S. W. corner Harrison avenue and Dwight street,	C	39
581.	H.	N. E. corner Harrison avenue and Dwight street,	P	110
582.	H.	Dwight street, front of No. 109, 6″ s. con.,	C	105
583.	L.	S. W. corner Dwight and Hillman streets,	C	38
584.	H.	N. W. corner Dwight and Hillman streets,	C	112
585.	H.	Hillman street, N. W. corner Barnes, 6″ s. con.,	C	110
586.	H.	Hillman street, N. E. corner Main, 6″ s. con., r. g.,	C	110
587.	H.	Bridge street, N. E. corner Main, 6″ s. con., r. g.,	C	110
588.	L.	Bridge street, S. E. corner Barnes, 6″ s. con.,	C	39
589.	L.	Bridge street, north side, at Stearns park,	C	36
590.	L.	Dwight street, S. W. corner Bridge, 6″ s. con.,	C	40
591.	H.	N. E. corner Bridge and Dwight streets, 6″ s. con.,	C	115
592.	L.	S. E. corner Worthington and Dwight streets, 6″ s. con.,	C	37
593.	H.	N. W. corner Worthington and Dwight streets,	C	115
594.	H.	S. E. corner Worthington street and Stearns ave.,	C	115
595.	L.	Worthington street, south side, front of No. 211,	C	38
596.	H.	N. E. corner Main and Worthington streets,	C	115
597.	H.	Main street, east side, opposite Fort,	C	115
598.	H.	N. E. corner Main and Taylor streets, 6″ s. con.,	C	115
599.	H.	Taylor street, south side, front of No. 23,	M	115
600.	H.	Taylor street, north side, opposite No. 51,	M	115
601.	H.	N. E. corner Taylor and Dwight streets,	P	115
602.	H.	Taylor street, north side, front of No. 96, 6″ s. con.,	C	110
603.	H.	S. E. corner Lyman and Dwight streets,	P	115
604.	L.	Lyman street, north side, opposite Dwight,	C	37
605.	H.	Lyman street, south side, front of No. 53,	P	110
606.	L.	Lyman street, north side, opposite Nos. 39-43,	C	40
607.	H.	Lyman street, north side, opposite Nos. 27-31,	P	110
608.	H.	N. E. cor. Main and Lyman streets, 6″ s. con., r. g.,	C	110
609.	L.	Lyman street, S. E. corner Main, 6″ s. con.,	C	40
610.	H.	Main street, east side, opposite Hampden, 6″ s. con.,	C	115
611.	H.	Main street, east side, just south of arch,	C	110
612.	H.	N. W. corner Chestnut and Lyman streets, 6″ s. con., r. g.,	C	105
613.	H.	Chestnut street, S. W. corner Lyman, 6″,	C	110
614.	H.	Lyman street, north side, midway Spring and Chestnut, 4″ s. con., r. g.,	C	107

No.	High or Low.	Location.	Make.	Pressure.
615.	L.	—Lyman street, S. E. corner Chestnut,	C	37
616.	H.	—Chestnut street, N. E. corner Bemis place,	C	110
617.	L.	—Chestnut street, east side, opp. Taylor, 6″ s. con.,	C	37
618.	H.	—N. W. corner Chestnut and Taylor streets,	C	110
619.	H.	—N. E. corner Chestnut and Worthington streets,	C	110
620.	L.	—S. W. corner Chestnut and Worthington streets,	C	37
621.	H.	—Chestnut street, S. W. corner Worthington, 6″ s. con.,	C	110
622.	L.	—Chestnut street, east side, near Bridge,	C	35
623.	H.	—Chestnut street, N. W. corner Bridge, 6″ s. con.,	C	110
624.	L.	—S. E. corner Chestnut and Pearl streets,	C	31
625.	H.	—Chestnut street, west side, opp. Pearl, 6″ s. con.,	C	105
626.	H.	—Chestnut street, west side, opp. Mattoon, 6″ s. con.,	C	105
627.	H.	—Chestnut street, N. W. cor. Harrison ave., 6″ s. con.,	C	105
628.	H.	—Chestnut street, west side, opposite Edwards, 6″,	C	100
629.	H.	—Edwards street, north side, opposite No. 37,	P	
630.	L.	—Chestnut street, west side, opposite Nos. 49-55,	C	21
631.	H.	—Chestnut street, west side, opposite No. 49, 6″,	C	90
632.	H.	—Chestnut street, west side, opposite Christ church,	C	90
633.	H.	—N. E. corner State and Chestnut streets, 6″ s. con.,	C	105
634.	H.	—State street, north side, front of Art Museum,	P	100
635.	H.	—State street, north side, at cathedral, 6″ s. con.,	C	95
636.	H.	—N. W. corner State and Elliott streets,	M	92
637.	H.	—Elliott street, west side, opposite Technical high school,	C	
638.	H.	—N. W. corner State and Spring streets, 6″ s. con.,	C	85
639.	H.	—Byers street, N. E. corner State, 6″ s. con., r. g.,	C	
640.	H.	—Byers street, opposite Nos. 38-40, 6″ s. con., r. g.,	C	
641.	H.	—Byers street, opposite No. 66, 6″ s. con., r. g.,	C	
642.	H.	—N. E. corner Spring and Frost streets,	C	85
643.	H.	—Spring street, east side, opposite Salem, 6″, 3-way,	P	85
644.	H.	—Elliott street, S. E. corner Salem, 6″ s. con.,	C	
645.	H.	—Salem street, north side, opposite Elliott,	C	95
646.	L.	—Pearl street, north side, opposite Salem, 6″ s. con.,	C	27
647.	H.	—S. E. corner Pearl and Spring streets,	C	85
648.	H.	—Pearl street, north side, at Byers, 6″ s. con., r. g.,	C	80
649.	H.	—Byers street, opposite No. 100, 6″ s. con., r. g.,	C	
650.	H.	—Pearl street, east of No. 156, 6″ s. con., r. g.,	C	
651.	H.	—Pearl street, west of No. 196, 6″ s. con., r. g.,	C	70

No.	High or Low.	Location.	Make.	Pressure.
652.	H.	Pearl street, west of No. 234, 6″ s. con., r. g.,	C	70
653.	H.	Pearl street, east of No. 260, 6″ s. con., r. g.,	C	
654.	H.	N. W. corner Pearl and Federal streets, 6″ s. con., r. g.,	C	50
655.	H.	N. E. corner Worthington and Federal streets,	P	55
656.	H.	Worthington street, north side, opposite No. 863,	C	73
657.	H.	N. E. corner Worthington street and Kibbe avenue,	C	83
658.	H.	Worthington street, north side, opposite Sackett avenue,	C	87
659.	H.	Worthington street, north side, opposite No. 755,	C	90
660.	H.	N. E. corner Worthington and Autumn streets,	C	90
661.	H.	Worthington street, north side, opp. schoolhouse,	C	90
662.	L.	Worthington street, S. W. corner Spring, 6″ s. con.,	C	20
663.	H.	N. E. corner Worthington and Spring streets,	C	90
664.	H.	N. E. corner Worthington and Alert streets,	C	95
665.	L.	Worthington street, south side, opposite Alert, 6″ s. con.,	C	30
666.	H.	N. E. corner Spring and Summer streets,	C	90
667.	L.	Lyman street, south side, front of Gilbert & Barker's shop,	C	25
668.	H.	Lyman street, north side, at Spring,	C	90
669.	H.	Summer street, north side, opposite Autumn, 6″ s. con., r. g.,	C	
670.	H.	Summer street, south side, front of No. 103, 1-way,	P	
671.	H.	Summer street, south side, front of No. 147,	P	
672.	H.	Summer street, S. E. corner Kibbe avenue, 6″,	C	83
673.	H.	Summer street, S. W. corner Federal, 6″ s. con., r. g.,	C	75
674.	H.	Armory street, N. W. corner Warwick, 6″ s. con.,	C	75
675.	H.	Armory street, east side, at paint shops,	C	83
676.	H.	Armory street, east side, opposite No. 140, 6″ s. con., r. g.,	C	
677.	H.	Armory street court, S. E. corner Armory street avenue, 6″ s. con.,	C	65
678.	H.	Worthington street, N. W. cor. Armory, 6″ s. con.,	C	50
679.	H.	N. E. corner Armory and Grant streets,	C	47
680.	H.	Federal street, west side, at Armory gate,	M	53
681.	H.	N. E. corner Federal and Lincoln streets,	P	53
682.	H.	Lincoln street, N. W. corner Magazine, 5″ s. con.,	C	53

No.	High or Low.	Location.	Make.	Pressure.
683.	H.	N. W. corner Magazine and Grant streets,	C	47
684.	H.	S. E. corner Armory and Magazine streets,	C	45
685.	H.	Worthington street, south side, midway Armory and Bowdoin, 6″ s. con.,	C	55
686.	H.	S. E. corner Worthington and Bowdoin streets,	P	50
687.	H.	Bowdoin street, east side, midway Worthington street and St. James avenue,	C	47
688.	H.	Bowdoin street, east side, near Ingersoll grove,	C	53
689.	H.	Ingersoll grove, east side, at angle,	C	43
690.	H.	S. W. corner Florida and Worthington streets,	M	57
691.	H.	S. E. corner Worthington and Thompson streets,	C	50
692.	H.	Thompson street, east side, midway St. James avenue and Worthington street,	C	41
693.	H.	Dartmouth terrace, north side, front of Nos. 47-53,	C	47
694.	H.	S. W. corner Harvard street and St. James avenue,	C	37
695.	H.	S. E. corner Harvard and Cornell streets,	C	48
696.	H.	S. E. corner Cornell and Wellesley streets,	C	45
697.	H.	S. E. corner Cornell and Princeton streets,	C	40
698.	H.	S. W. corner St. James avenue and Princeton street,	C	41
699.	H.	St. James avenue, west side, opposite Dorchester street,	C	43
700.	H.	N. E. corner Dorchester and Monmouth streets,	C	48
701.	H.	S. W. corner Lafayette and Amherst streets,	C	50
702.	H.	S. W. corner Monmouth and Yale streets,	C	45
703.	H.	Monmouth street, at Berkeley,	C	40
704.	H.	S. W. corner Princeton and Yale streets,	C	53
705.	H.	Princeton street, south side, between Vassar and Amherst,	C	53
706.	H.	Harvard street, south side, midway St. James avenue and Yale street,	C	52
707.	H.	N. W. corner Harvard and Yale streets,	C	54
708.	H.	N. W. corner Dartmouth and Yale streets,	C	37
709.	H.	Dartmouth street, north side, midway,	C	45
710.	H.	N. E. corner Dartmouth street and St. James ave.,	C	45
711.	H.	N. E. corner Clarendon street and St. James ave.,	C	43
712.	H.	Clarendon street, north side, front of Nos. 35-41,	C	47
713.	H.	S. W. corner Buckingham and Clarendon streets,	C	50
714.	H.	N. E. corner Buckingham street and Buckingham place,	C	46

No.	High or Low.	Location.	Make.	Pressure.
715.	H.	—S. E. corner Buckingham and Bay streets,	C	47
716.	H.	—S. E. corner Bay and Westminster streets,	C	47
717.	H.	—Westminster street, east side, midway St. James avenue and Bay street,	C	47
718.	H.	—S. E. corner Westminster street and St. James ave.,	C	44
719.	H.	—S. E. corner Thompson street and St. James ave.,	C	44
720.	H.	—S. E. corner Thompson and Bay streets,	P	48
721.	H.	—S. E. corner Bay and Pleasant streets,	C	45
722.	H.	—S. W. corner Florida street and St. James avenue,	M	45
723.	H.	—N. E. corner St. James avenue and Bowdoin street,	C	40
724.	H.	—N. E. corner State street and St. James avenue,	P	46
725.	H.	—N. E. corner State and Pleasant streets,	P	48
726.	H.	—N. E. corner State and Westminster streets,	P	46
727.	H.	—Buckingham street, east side, front of No. 69,	C	53
728.	H.	—N. E. corner Sherman and State streets,	P	50
729.	H.	—S. E. corner Sherman and McKnight streets,	C	55
730.	H.	—S. E. corner Sherman and Bay streets,	C	52
731.	H.	—S. E. corner Catharine and Bay streets,	C	57
732.	H.	—N. E. corner Catharine and McKnight streets,	C	50
733.	H.	—Catharine street, east side, north of Pease,	C	53
734.	H.	—Catharine street, east side, front of Nos. 29-37,	C	50
735.	H.	—State street, south side, at Winchester park engine house,	C	50
736.	H.	—State street, north side, west of N. E. R. R., 6″ s. con.,	C	51
737.	H.	—Chapin street, east side, midway,	C	52
738.	H.	—Marion street, west side, south end,	C	50
739.	H.	—N. E. corner Bowles and McKnight streets,	C	50
740.	H.	—Bowles st., east side, midway Bay and McKnight,	C	49
741.	H.	—S. E. corner Bowles and Bay streets,	C	49
742.	H.	—Welcome place, east side, end of pipe, front of No. 25,	C	45
743.	H.	—Marion st., east side, midway Bay and McKnight,	C	48
744.	H.	—N. W. corner McKnight street and Girard avenue,	C	47
745.	H.	—S. E. corner Bay street and Girard avenue,	C	51
746.	H.	—Clifford street, south side, midway,	C	51
747.	H.	—Bay street, south side, east of Dawes,	C	50
748.	H.	—Dawes street, west side, midway,	C	53
749.	H.	—S. E. corner Bay street and Oak Grove avenue,	C	49

No.	High or Low.	Location.	Make.	Pressure.
750.	H.—	Cambridge street, east side, front of No. 45,	C	50
751.	H.—	Cambridge street, east side, opposite No. 84,	C	51
752.	H.—	Andrew street, east side, midway,	C	52
753.	H.—	Hayden avenue, east side, midway,	P	53
754.	H.—	N. E. corner State and Andrew streets,	P	53
755.	H.—	Hunter place, west side, midway, 6″ s. con.,	C	50
756.	H.—	Montrose street, east side, midway, 6″ s. con.,	C	52
757.	H.—	Mapledell street, N. E. corner State, 6″ s. con.,	C	51
758.	H.—	Mapledell street, S. E. corner Burr, 5″ s. con.,	C	53
759.	H.—	Oak Grove avenue, N. E. corner State street, 6″ s. con.,	C	51
760.	H.—	College avenue, S. E. corner Shattuck,	C	52
761.	H.—	College avenue, east side, midway State street and Shattuck avenue,	C	52
762.	H.—	State street, N. E. corner College avenue,	C	50
763.	H.—	Maynard street, west side, near State,	C	53
764.	H.—	Willard avenue, west side, front of No. 42,	C	53
765.	H.—	State street, north side, midway Willard avenue and Cortland street,	C	54
766.	H.—	Cortland street, west side, opposite No. 12,	C	53
767.	H.—	Dresden street, east side, midway, 6″ s. con.,	C	52
768.	H.—	State street, north side, opposite Colonial avenue,	C	52
—.	H.—	State street, in almshouse yard (2 private),	C	40
769.	H.—	Almshouse driveway, at State street, 6″ s. con.,	C	
770.	H.—	State street, north side, front of Alden Warner's,	C	45
771.	H.—	Boston road, north side, near Jasper st., 6″ s. con.,	C	43
772.	H.—	Coleman street, east side, 388 feet south of Boston road, 6″ s. con.,	C	47
773.	H.—	Denver street, east side, end of pipe, 960 ft. from Boston road,	C	45
774.	H.—	Boston road, north side, opposite Barber street, 6″ s. con.,	C	45
775.	H.—	Harvey street, N. E. corner Boston road,	C	40
776.	H.—	Harvey street, east side, midway,	C	40
777.	H.—	Elizabeth street, S. E. corner Berkshire, 6″ s. con.,	C	
778.	H.—	Bay path, N. E. corner Berkshire street, 6″ s. con., r. g.,	C	
779.	H.—	Bay path, midway, 6″ s. con., r. g.,	C	

No.	High or Low.	Location.	Make.	Pressure.
780.	H.	Bay path, end of pipe, about 900 ft. from Berkshire street, 6″ s. con., r. g.,	C	
781.	H.	S. E. corner State and Benton streets,	C	47
782.	H.	Benton avenue, N. E. corner Benton street, 6″ s. con.,	C	48
783.	H.	Benton street, N. E. corner Wilbraham road, 6″ s. con.,	C	49
784.	H.	Wilbraham road, front of House of Good Shepherd, 6″ s. con.,	C	53
785.	H.	Carlisle street, S. E. corner Wilbraham road, 6″ s. con.,	C	50
786.	H.	Carlisle street, east side, end of pipe, front of No. 54, 6″ s. con.,	C	53
787.	H.	Norfolk street, S. E. corner Wilbraham road,	C	52
788.	H.	Norfolk street, east side, end of pipe, opposite No. 124,	C	47
789.	H.	Suffolk street, east side, end of pipe, front of No. 129, 5″ s. con.,	C	48
790.	H.	Colonial avenue, N. E. corner Wilbraham road, 6″ s. con.,	C	50
791.	H.	Middlesex street, S. E. corner Wilbraham road,	C	50
792.	H.	Wellington street, east side, opp. No. 64, 6″ s. con.,	C	50
793.	H.	Reed street, N. E. corner Wilbraham road,	C	50
794.	H.	N. E. corner Wilbraham road and College street,	C	51
795.	H.	Massachusetts ave., S. E. corner Wilbraham road, 6″ s. con., r. g.,	C	
796.	H.	Massachusetts ave., south of No. 39, 6″ s. con., r. g.,	C	
797.	H.	Westford avenue, S. E. corner Wilbraham road, 6″ s. con.,	C	52
798.	H.	Westford avenue, east side, opposite Nos. 44-50, 6″ s. con.,	C	51
799.	H.	Westford avenue, east side, opposite Nos. 94-100, 6″ s. con.,	C	51
800.	H.	Westford avenue, east side, opposite Gunn square, 6″ s. con.,	C	48
801.	H.	Northampton ave., east side, south of Gunn square, 6″ s. con.,	C	46
802.	H.	King street, N. W. corner Westford avenue, 6″ s. con.,	C	47

No.	High or Low.	Location.	Make.	Pressure.
803.	H.	Wilbraham avenue, N. E. corner King street, 6″ s. con.,	C	44
804.	H.	Wilbraham avenue, east side, 350 ft. north of King street, 6″ s. con.,	C	43
805.	H.	Wilbraham ave., east side, just north of No. 151,	P	44
806.	H.	Wilbraham ave., east side, 100 ft. north of Beverly street,	C	48
807.	H.	Waltham avenue, east side, end of pipe, near No. 54, 6″ s. con.,	Co.	
808.	H.	Northampton avenue, east side, opposite No. 108,	C	45
809.	H.	Northampton avenue, east side, at No. 49,	C	52
810.	H.	Northampton ave., S. E. corner Wilbraham road,	C	51
811.	H.	Wilbraham avenue, east side, front of No. 25,	C	47
—.	H.	Wilbraham road, front of Elektron Mfg. Co.'s shop (private),	C	48
812.	H.	S. E. corner Waltham ave. and Wilbraham road,	C	46
813.	H.	S. W. corner Colton street and Wilbraham road,	C	48
814.	H.	S. W. corner Wilbraham road and Eastern avenue,	C	52
815.	H.	S. E. corner State and Winchester streets,	C	51
816.	H.	S. E. corner State and Hancock streets,	P	48
817.	H.	N. E. corner Monroe and Hancock streets,	C	47
818.	H.	Monroe street, north side, front of No. 72,	P	48
819.	H.	N. W. corner Monroe street and Eastern avenue,	C	50
820.	H.	N. W. corner Monroe and Colton streets,	C	50
821.	H.	S. W. corner Colton and Union streets,	C	53
822.	H.	S. W. corner Union street and Eastern avenue,	C	52
823.	H.	Union street, south side, front of Nos. 719-723,	C	53
824.	H.	Union street, south side, opposite No. 660,	C	53
825.	H.	S. E. corner Union and Hancock streets,	M	53
826.	H.	N. W. corner Hancock and Quincy streets,	C	53
827.	H.	Quincy street, north side, opposite No. 181,	C	54
828.	H.	Quincy street, north side, front of No. 230,	C	51
829.	H.	N. W. corner Quincy street and Eastern avenue,	C	50
830.	H.	N. W. corner Quincy and Colton streets,	C	54
831.	H.	N. W. corner Tyler and Colton streets,	C	53
832.	H.	S. W. corner Tyler street and Eastern avenue,	C	53
833.	H.	Tyler street, north side, front of No. 220,	C	53
834.	H.	Tyler street, north side, opposite No. 173,	C	52
835.	H.	N. W. corner Hancock and Tyler streets,	M	56

No.	High or Low.	Location.	Make.	Pressure.
836.	H.	N. W. cor. Hancock street and Pendleton avenue,	P	55
837.	H.	Pendleton avenue, north side, opposite No. 163,	C	52
838.	H.	Pendleton avenue, north side, opposite No. 209,	C	50
839.	H.	N. W. corner Pendleton and Eastern avenues,	C	50
840.	H.	Beacon street, south side, at Colton,	C	56
841.	H.	King street, N. W. corner Logan,	C	55
842.	H.	N. W. corner Eastern avenue and King street,	C	56
843.	H.	King street, north side, front of No. 184, 6″ s. con.,	C	55
844.	H.	King street, north side, opposite Nelson avenue,	C	58
845.	H.	N. E. corner King and Hancock streets,	M	60
846.	H.	N. W. corner Lebanon street and Nelson avenue,	C	58
847.	H.	N. W. corner Lebanon street and Merrick avenue,	C	60
848.	H.	Eastern avenue, east side, opposite Lebanon street,	C	61
849.	H.	N. W. corner Granville and Logan streets,	C	60
850.	H.	N. W. corner Olive and Logan streets,	C	55
851.	H.	N. W. corner Ladd and Logan streets,	C	60
852.	H.	Collins street, near N. W. corner Logan,	C	60
853.	H.	N. W. corner Greene street and Eastern avenue,	C	60
854.	H.	Greene street, north side, front of No. 88,	C	58
855.	H.	N. W. corner Greene street and Nelson avenue,	C	62
856.	H.	N. E. corner Greene and Hancock streets,	M	62
857.	H.	Alden street, north side, front of No. 24,	C	60
858.	H.	Alden street, north side, front of No. 86,	C	62
859.	H.	N. W. corner Alden street and Eastern avenue,	C	45
860.	H.	Alden street, N. W. corner Logan,	P	42
861.	H.	Alden street, north side, at Hickory, 6″ s. con.,	C	45
862.	H.	Hickory street, N. E. corner Woodbine avenue,	C	45
863.	H.	Hickory street, front of International Training School dormitory, 6″ s. con., r. g.,	C	
864.	H.	Hickory street, north side, opposite brick ice house,	C	32
865.	H.	Manhattan street, N. W. corner Eastern avenue,	C	47
866.	H.	Manhattan street, north side, midway,	C	44
867.	H.	N. E. corner Manhattan and Walnut streets,	C	43
868.	H.	Walnut street, east side, N. E. corner Marshall place,	M	42
869.	H.	Eastern avenue, S. W. corner Marshall place, 6″ s. con.,	C	48
870.	H.	Melrose street, N. W. corner Eastern avenue, 5″ s. con.,	C	50

No.	High or Low.	Location.	Make.	Pressure.
871.	H.	Melrose street, north side, midway, 5″ s. con.,	C	50
872.	H.	Hickory street, north side, at No. 130, 6″ s. con.,	C	50
873.	H.	Hickory street, north side, at No. 110, 6″ s. con.,	C	50
874.	H.	N. E. corner Hickory and Walnut streets,	M	53
875.	H.	Allen street, north side, at White,	C	39
876.	H.	Allen street, north side, near No. 121,	C	40
877.	H.	Hunt terrace, end of 4″ pipe, front of No. 4,	C	37
878.	H.	Randall avenue, west side, end of pipe, front of No. 32,	C	40
879.	H.	Allen street, north side, opposite No. 212,	C	37
880.	H.	Allen street, north side, west of N. E. R. R.,	C	38
881.	H.	Allen street, north side, just east of N. E. R. R.,	P	37
882.	H.	Allen street, north side, midway N. E. R. R. and Plumtree road,	P	36
883.	H.	Allen street, N. W. corner Plumtree road,	C	32
884.	H.	Sumner avenue, end of pipe, front of No. 1079, 6″ s. con., r. g.,	C	
885.	H.	Sumner avenue, at Thorndyke street, east,	C	35
886.	H.	Trinity place, S. E. corner Sumner avenue,	C	36
887.	H.	Irvington avenue, near end of pipe, front of No. 41, 6″ s. con.,	C	37
888.	H.	White street, S. W. cor. Priscilla place., 6″ s. con.,	Co.	
889.	H.	Whittier ave., S. E. cor. Priscilla place, 6″ s. con.,	Co.	
890.	H.	White street, front of No. 332, 6″ s. con.,	C	
891.	H.	White street, west side, south of Dawson avenue,	C	37
892.	H.	Johnson street, N. W. corner Ranney,	P	29
893.	H.	Bloomfield street, N. W. corner Pasadena avenue, 6″ s. con.,	C	35
894.	H.	Orange street, east of White, end of pipe, east of No. 384, 6″ s. con.,	C	44
895.	H.	White street, west side, front of church,	C	42
896.	H.	Orange street, S. W. corner Ranney,	C	40
897.	H.	White street, west side, front of No. 74,	C	40
898.	H.	Grand street, between Ozark and Wareham, 6″ s. con.,	C	40
899.	H.	Revere street, N. E. corner Grand, 6″ s. con.,	C	40
900.	H.	Malden street, N. E. corner Grand, 6″ s. con.,	C	40
901.	H.	Orange street, south side, between Revere and Malden, 6″ s. con.,	C	43

No.	High or Low.	Location.	Make.	Pressure.
902.	H.	—Kensington avenue, N. W. corner Earl street, 6″ s. con.,	C	40
903.	H.	—Kensington avenue, at Oakland street, in park, 6″ s. con.,	C	40
904.	H.	—Oakland street, N. W. corner Orange,	C	43
905.	H.	—Noel avenue, N. W. corner Shamrock,	C	45
906.	H.	—Noel avenue, east side, end of pipe, in grass plot,	C	52
907.	H.	—Oakland street, N. W. corner Shamrock avenue,	C	42
908.	H.	—S. W. corner Oakland and Allen streets,	C	50
909.	H.	—S. W. corner Mill and Allen streets,	M	64
910.	H.	—Central street, N. W. corner Mill, 6″ s. con.,	C	60
911.	H.	—S. E. corner Hancock and Central streets,	M	56
912.	H.	—Hancock street, west side, south of Central, at end,	C	63
913.	H.	—Mill street, south side, between Cherry lane and Knox street, 6″ s. con., r. g.,	C	
914.	H.	—Mill street, south side, opposite Maple, 6″ s. con., r. g.,	C	64
915.	H.	—Cherry lane, west side, just south of No. 92,	C	65
916.	H.	—Cherry lane, west side, opposite No. 51,	C	55
917.	H.	—N. W. corner Cherry lane and Central street,	C	43
918.	H.	—N. E. corner Spruce and Central streets, 6″ s. con.,	C	45
919.	H.	—Spruce street, east side, front of No. 34,	P	41
920.	H.	—Clark street, N. E. corner Spruce, 6″ s. con.,	C	44
921.	H.	—Clark street, north side, midway, 5″ s. con.,	C	44
922.	H.	—N. W. corner Hancock and Clark streets,	C	44
923.	H.	—N. W. corner Hancock and Hawthorn streets,	C	43
924.	H.	—Hawthorn street, north side, midway,	C	43
925.	H.	—S. W. corner Hancock and Florence streets,	M	43
926.	H.	—S. W. corner Florence and Spruce streets,	M	42
927.	H.	—Beech street, east side, midway,	C	38
928.	H.	—Central street avenue, S. W. corner Central street, 6″ s. con.,	C	44
929.	H.	—Foster court, west roadway, 1-way,	C	45
930.	H.	—Foster court, east roadway, 1-way,	C	45
931.	H.	—Central street, south side, front of No. 319,	M	45
932.	H.	—N. E. corner Pine and Central streets,	P	44
933.	H.	—N. E. corner Pine and Cedar streets,	M	45
934.	H.	—Ashley street, north side, opposite No. 49,	C	43
935.	H.	—Ashley street, north side, front of No. 92,	C	47

No.	High or Low.	Location.	Make.	Pressure.
936.	H.	N. W. corner Ashley and Walnut streets,	C	49
937.	H.	Belgrade place, N. W. corner Walnut street,	C	49
938.	H.	N. W. corner Cedar and Walnut streets,	P	50
939.	H.	N. W. corner Lebanon and Hancock streets,	M	49
940.	H.	Queen street, north side, opposite No. 43,	C	49
941.	H.	N. W. corner Walnut and James streets,	M	48
942.	H.	James street, east side, midway,	C	45
943.	H.	King st., north side, midway Hancock and Walnut,	C	45
944.	H.	S. E. corner Pendleton avenue and Walnut street,	P	45
945.	H.	N. E. corner Pendleton avenue and Orleans street,	C	44
946.	H.	N. E. corner Tyler and Orleans street,	C	45
947.	H.	Tyler st., north side, front of Blake Mfg. Co.'s shop,	C	44
948.	H.	N. E. corner Quincy and Stebbins streets,	C	44
949.	H.	N. W. corner Quincy and Orleans streets,	C	54
950.	H.	N. E. corner Quincy and Oak streets,	P	45
951.	H.	S. W. corner Oak street and Charter avenue,	C	45
952.	H.	N. E. corner Union and Orleans streets,	P	45
953.	H.	N. W. corner Union and Stebbins streets,	P	44
954.	H.	Terrence street, east side, midway,	M	42
955.	H.	S. E. corner State and Orleans streets,	M	47
956.	H.	Lillian street, north side, opposite No. 17,	C	45
957.	H.	State street, north side, midway Benton park,	P	47
958.	H.	S. E. corner State and Walnut streets, 6″ s. con.,	C	55
959.	H.	N. E. corner Walnut street and Charter avenue,	P	54
960.	H.	State street, north side, opposite Woodworth avenue, 6″ s. con.,	C	55
961.	H.	State street, north side, opposite Olivet church,	M	55
962.	H.	High street, 350 ft. east of Ingraham avenue, 6″ s. con.,	C	
963.	H.	Ingraham avenue, S. E. corner High street, 6″ s. con.,	C	
964.	H.	Union street, north side, opposite Mulberry,	P	57
965.	H.	Ridgewood terrace, at end of pipe, opposite No. 35,	C	56
966.	H.	S. W. corner Walnut and Union streets,	P	54
967.	H.	Dymon street, north side, midway,	C	55
968.	H.	Walnut street, east side, at Oak,	C	55
969.	H.	Pine street, east side, front of No. 55,	C	53
970.	H.	Pine street, east side, front of No. 109,	C	53
971.	H.	Madison avenue, east side, north end,	C	54

No.	High or Low.	Location.	Make.	Pressure.
972.	H.	—Central street, at Sterns terrace, 6″ s. con.,	C	72
973.	H.	—S. E. corner Central and Cedar streets,	M	58
974.	H.	—Pine street, west side, opposite No. 239, 5″ s. con.,	C	55
975.	H.	—Windsor street, N. E. corner Pine, 6″ s. con., r. g.,	C	
976.	H.	—Windsor street, opposite No. 31, 6″ s. con., r. g.,	C	
977.	H.	—Windsor street, opposite Knox, 6″ s. con., r. g.,	C	
978.	H.	—Knox street, midway Dexter and Smith, 6″ s. con., r. g.,	C	
979.	H.	—Smith street, N. W. corner Knox, 6″ s. con., r. g.,	C	
980.	H.	—Dexter street, N. W. corner Knox, 6″ s. con., r. g.,	C	
981.	H.	—Dexter street, north side, midway, 6″ s. con., r. g.,	C	
982.	H.	—Dexter street, N. E. corner George, 6″ s. con., r. g.,	C	
983.	H.	—Maple street, front of No. 385, 6″ s. con., r. g.,	C	
984.	H.	—N. W. corner Maple and Pine streets, 6″,	P	58
985.	H.	—Maple ave., 350 feet east of Maple street, 6″ s. con.,	C	58
986.	H.	—Maple street, east side, front of No. 241, 6″ s. con., r. g.,	C	55
987.	H.	—Central street, north side, east of Maple, 6″ s. con.,	C	93
988.	H.	—N. E. corner Maple street and Avon place,	C	97
989.	H.	—Avon place, north side, midway,	C	92
990.	L.	—Maple street, west side, front of No. 140, 6″ s. con.,	C	17
991.	H.	—S. E. corner Maple and Mulberry streets,	C	95
992.	H.	—Mulberry street, front of No. 44, 6″ s. con.,	C	86
993.	H.	—N. E. corner School and Mulberry streets,	P	83
994.	H.	—Ridgewood place, N. W. corner Mulberry street,	C	74
995.	H.	—Ridgewood place, S. W. corner Union street,	C	80
996.	H.	—N. E. corner Union and School streets,	P	90
997.	H.	—Union st., north side, midway School and Maple,	C	93
998.	H.	—N. E. corner Union and Maple streets,	C	95
999.	L.	—Maple street, front of No. 104, 6″ s. con.,	C	18
1000.	L.	—Maple street, S. W. corner Park, 6″ s. con.,	C	22
1001.	H.	—Maple street, west side, opposite High,	C	93
1002.	H.	—High street, south side, opposite No. 36, 6″ s. con.,	C	92
1003.	H.	—S. W. corner Maple and Stockbridge streets,	P	105
1004.	H.	—S. E. corner Maple and Temple streets,	C	96
1005.	L.	—S. E. corner Maple and Temple streets, 6″ s. con.,	C	26
1006.	H.	—Temple street, south side, front of No. 46,	C	93
1007.	H.	—S. W. corner School and Temple streets,	C	88
1008.	H.	—N. E. corner High and School streets,	P	87

No.	High or Low.	Location.	Make.	Pressure.
1009.	H.	High street, N. E. corner Myrtle, 6″ s. con.,	C	
1010.	H.	Myrtle street, east side, midway,	C	83
1011.	H.	State street, south side, front of No. 345,	P	70
1012.	L.	State street, south side, at high school, 6″ s. con.,	C	27
1013.	L.	State street, south side, at Unity church, 6″ s. con.,	C	28
1014.	H.	Five Mile pond, at pumping station,	C	40

INDIAN ORCHARD.

No.	High or Low.	Location.	Make.	Pressure.
1.	H.	Hampden street, S. E. corner Holly, 6″ s. con., r. g.,	C	
2.	H.	Holly street, S. E. corner Worcester, 6″ s. con.,	C	
3.	H.	S. W. corner Chestnut and Worcester streets,	C	47
4.	H.	Hampden street, S. E. corner Chestnut,	C	47
5.	H.	Hampden street, midway Holly and Chestnut, 6″ s. con., r. g.,	C	
6.	H.	S. E. corner Hampden and Myrtle streets,	P	44
7.	H.	S. W. corner Hampden and Oak streets,	C	58
8.	H.	S. W. corner Worcester and Oak streets,	C	65
9.	H.	Worcester street, midway Myrtle and Oak, 6″,	C	62
10.	H.	S. W. corner Worcester and Myrtle streets,	P	55
11.	H.	Main street, north side, west end of park,	P	68
12.	H.	N. W. corner Main and Myrtle streets,	P	68
13.	H.	Main street, midway Oak and Myrtle, 6″,	C	68
14.	H.	N. E. corner Main and Oak streets,	C	65
15.	H.	S. E. corner Water and Oak streets,	C	68
16.	H.	Front street, opposite waste mill, 6″ s. con.,	C	65
17.	H.	Front street, at No. 1, 6″ s. con.,	C	65
18.	H.	Water street, south side, end of pipe, front of No. 6, 6″ s. con.,	C	65
19.	H.	Center street, north side, 320 ft. east of Oak,	C	65
20.	H.	Center street, north side, 320 ft. west of Cedar,	C	65
21.	H.	S. W. corner Main and Pine streets,	P	65
22.	H.	N. W. corner Worcester and Pine streets,	C	64
23.	H.	Worcester street, north side, 600 ft. east of Pine, 6″,	C	64
24.	H.	Main street, south side, at French church, 6″,	C	64
25.	H.	S. W. corner Water and Cedar streets,	C	65
26.	H.	N. W. corner Main and Cedar streets,	P	65
27.	H.	Main street, midway Cedar and Quebec,	C	60
28.	H.	Main street, N. W. corner Quebec,	C	50

No.	High or Low.	Location.	Make.	Pressure.
29.	H.	Worcester street, at end of pipe, opposite No. 297,	C	45
30.	H.	Milton street, S. E. corner Main, 6″,	C	47
31.	H.	Milton street, east side, end of pipe, 260 ft. south of Nos. 25-27, 6″,	C	40
32.	H.	Beaudry street, east side, end of pipe, opposite Nos. 34-36, 6″,	C	42
33.	H.	Main street, north side, east of Beaudry, 6″,	C	47
34.	H.	Main street, near Wilbraham line,	C	45
35.	H.	Parker street, S. W. corner Main,	C	45
36.	H.	Second street, S. E. corner Central avenue,	C	34
37.	H.	Parker street, west side, 1,200 ft. south of Main,	C	35
38.	H.	Parker street, near old schoolhouse, 6″ s. con.,	C	35
39.	H.	Parker street, 400 ft. north of Oak, 6″ s. con.,	C	35
40.	H.	Oak street, near railroad station, 6″ s. con.,	C	38
41.	H.	Parker street, south of railroad,	C	38
42.	H.	Boston road, N. W. corner Parker street, 6″ s. con.,	C	
43.	H.	Boston road, north side, opposite A. P. Nichols's, 6″ s. con.,	C	
44.	H.	Boston road, N. E. corner Pasco road, 6″ s. con.,	C	
45.	H.	Oak street, east side, opposite No. 340, 6″ s. con.,	C	35
46.	H.	Oak street, N. E. corner High,	C	38
47.	H.	Pasco street, N. E. corner Bay road,	C	40
48.	H.	Oak street, east side, opposite No. 194,	C	40
49.	H.	Oak street, west side, south of Essex,	C	38
50.	H.	Oak street, S. W. corner Essex,	C	38
51.	H.	Pasco street, S. E. corner Essex, 3-way,	C	38
52.	H.	Pasco street, east side, at Sunnyside avenue,	C	38
53.	H.	Pine street, at Chapman Valve works, 6″, 4-way,	C	50
54.	H.	N. W. corner Hampshire and Pine streets,	C	50
55.	H.	N. E. corner Hampshire and Oak streets,	C	38
56.	H.	Berkshire street, east of Oak, end of pipe, 50 ft. east of No. 173, 6″ s. con., r. g.,	C	
57.	H.	Berkshire street, north side, west of Oak,	C	40
58.	H.	N. E. corner Berkshire and Myrtle streets,	P	38
59.	H.	N. W. corner Hampshire and Myrtle streets,	C	38
60.	H.	Chestnut street, N. W. corner Berkshire, 6″ s. con., r. g.,	C	47

APPENDIX XV.

FIRE RESERVOIRS

CONNECTED WITH THE WORKS.

Bridge street, at Main,	1
Bridge street, at Water,	1
Central street, opposite Beech,	1
Elm street, at First church,	1
Ferry street, at Main,	1
Hampden street, at Main,	1
Harrison avenue, at Main street,	1
Howard street, at Main,	1
Lyman street, at Dwight,	1
Main street, at Court square,	1
Main street, at Franklin,	1
Main street, near Patton,	1
Main street, at State,	1
Maple street, at Central,	1
Pine street, at Central,	1
Pynchon street, near Water,	1
State street, near Elliott,	1
Walnut street, at Hancock,	1
Water street, opposite Walker,	1
Total,	19

APPENDIX XVI.

STREET WATERING HYDRANTS

CONNECTED WITH THE WORKS.

Crane Hydrants—For Cart Sprinklers.

(**Belongs to Street Watering Department.*)

No.	Location.	Service.
1.	Water street, S. E. corner Worthington,	Low
2.	Cypress street, S. W. corner Main,	High
3.	Main street, S. E. corner Tenth,	High
4.	Fulton street, N. E. corner Auburn,	Low
5.	North Main street, near Carew,	High
6.	*John street, N. W. corner Plainfield,	Low
7.	Plainfield street, east side, midway Lowell and Washburn,	Low
8.	*Plainfield street, at Clayton,	Low
9.	*Hyde avenue, N. E. corner Plainfield street,	High
10.	North Main street, east side, opposite Grace,	Low
11.	Springfield street, S. E. corner Chestnut,	High
12.	North Main street, east side, opposite Douglas,	High
13.	Alexander street, S. E. corner North,	Low
14.	Chestnut street, N. E. corner Montmorenci,	Low
15.	*Birnie avenue, midway Huntington and Greenwich,	Low
16.	North Main street, S. W. corner Arch,	High
17.	*Brookline avenue, N. E. corner North street,	Low
18.	*Grosvenor street, N. E. corner Chestnut,	Low
19.	Everett street, N. E. corner Chestnut,	Low
20.	Carew street, south side, east of Arbor,	High
21.	Cass street, east side, north of Linden,	Low
22.	Chestnut street, east side, at Franklin (south),	Low
23.	*Franklin street, opposite Vinton,	High
24.	Liberty street, south side, opposite Webster,	High
25.	*Liberty street, opposite Genesee,	High
26.	Armory street, east side, south of Liberty,	High
27.	*Grover street, N. E. corner Armory,	High
28.	*Cleveland street, N. W. corner Liberty,	High

No.	Location.	Service.
29.	*Armory street, at Warwick (south),	High
30.	Worthington street, N. E. corner Kibbe avenue,	High
31.	Worthington street, front of house No. 725,	High
32.	Spring street, near S. E. corner Worthington,	High
33.	Dwight street, near N. E. corner Taylor,	High
34.	Dwight street, S. W. corner Hillman,	High
35.	Sanford street, S. W. corner Dwight,	Low
36.	Chestnut street, west side, opposite Edwards,	High
37.	State street, N. E. corner Byers,	High
38.	Byers street, near S. E. corner Pearl,	High
39.	State street, S. W. corner Federal,	High
40.	Armory street, east side, north of Grant,	High
41.	Magazine street, west side, south of Armory,	High
42.	St. James avenue, N. E. corner Magazine,	High
43.	*Florida street, S. E. corner Worthington,	High
44.	Thompson street, N. E. corner St. James avenue,	High
45.	Worthington street, S. E. corner Clarendon,	High
46.	*Dartmouth terrace, opposite No. 71,	High
47.	St. James avenue, north of Princeton street,	High
48.	*Yale street, S. W. corner Monmouth,	High
49.	Amherst street, N. E. corner Princeton,	High
50.	Bay street, N. W. corner Buckingham place,	High
51.	*McKnight street, at No. 12,	High
52.	Bay street, S. W. corner Marion,	High
53.	Cambridge street, S. E. corner Bay,	High
54.	Andrew street, west side, opposite Dawes,	High
55.	Mapledell street, N. E. corner State,	High
56.	*Shattuck avenue, east of College street,	High
57.	State street, N. E. corner Willard avenue,	High
58.	Wilbraham road, nearly opposite Northampton avenue,	High
59.	Northampton avenue, N. W. corner Gunn square,	High
60.	Wilbraham road, at engine house,	High
61.	Monroe street, N. W. corner Eastern avenue,	High
62.	Hancock street, at State (south),	High
63.	Quincy street, near N. E. corner Hancock,	High
64.	King street, N. W. corner Hancock,	High
65.	Eastern avenue, S. W. corner King street,	High
66.	Eastern avenue, N. W. corner Alden street,	High
67.	*Alden street, at Hickory,	High

No.	Location.	Service.
68.	Walnut street, opposite Manhattan,	High
69.	Alden street, S. E. corner Hancock,	High
70.	Walnut street, east side, south of Queen,	High
71.	Pine street, south of cemetery gate,	High
72.	Oak street, east side, near Walnut,	High
73.	*Mulberry street, east side, near Union,	High
74.	Mulberry street, at Ridgewood place,	High
75.	*Union street, north side, near Maple,	High
76.	Maple street, S. E. corner Central,	High
77.	Pine street, N. W. corner Central,	High
78.	Pine street, N. E. corner Maple,	High
79.	Central street, N. W. corner Spruce,	High
80.	Allen street, at Mill,	High
81.	*Hickory street, near No. 181,	High
82.	Allen street, at No. 161,	High
83.	*Allen street, front of No. 285,	High
84.	White street, opposite No. 50,	High
85.	White street, N. W. corner Orange,	High
86.	Oakland street, N. W. corner Orange,	High
87.	Dickinson street, S. E. corner Oakland,	High
88.	*Dickinson street, opposite Keith,	High
89.	Belmont avenue, at top of hill,	High
90.	Belmont, avenue, opposite Mountainview street,	High
91.	Belmont avenue, N. E. corner Oakland street,	High
92.	*Dickinson street, between Wilmont and Alderman,	High
93.	Sumner avenue, S. W. corner Dickinson street,	High
94.	*Dickinson street, opposite Hollywood,	High
95.	*Sumner avenue, east of Ormond street,	High
96.	*Sumner avenue, east of Lyndale street,	High
97.	*Sumner avenue, east of street railway car barn,	High
98.	Sumner avenue, opposite Churchill street,	High
99.	Garfield street, at Greenleaf (west),	High
100.	Sumner avenue, near Jackson street,	High
101.	*Maplewood terrace, near Riverview terrace,	High
102.	Magnolia terrace, near house No. 77,	High
103.	Sumner avenue, S. E. corner Beechwood,	High
104.	Spruceland avenue, at Cherryvale,	High
105.	Main, end of pipe at Pecousic brook,	High
106.	Sumner avenue, at cemetery,	High

No.	Location.	Service.
107.	Fort Pleasant avenue, near Riverview terrace,	High
108.	Mill street, S. E. corner Locust,	High
109.	Pine street, at Mill,	High
110.	Main street, at Mill river,	High
111.	Main street, at Locust,	High
112.	*Norwood street, N. E. corner Hanover,	Low
113.	Loring street, N. E. corner Water,	High
114.	Adams street, N. E. corner Main,	Low
115.	*William street, N. E. corner Main,	High
116.	Willow street, S. E. corner Park,	High
117.	Howard street, S. W. corner Water,	Low
118.	Water street, east side, south of Court,	Low

INDIAN ORCHARD.

(**Belongs to Street Watering Department.*)

No.	Location.	Service.
1.	*Worcester street, west of Chestnut,	High
2.	*Hampden street, near Chestnut,	High
3.	Myrtle street, S. E. corner Hampshire,	High
4.	Hampshire street, S. W. corner Oak,	High
5.	Oak street, near old Bay road,	High
6.	Worcester street, S. W. corner Oak,	High
7.	Worcester street, near No. 236,	High
8.	*Main street, south side, west of Johnson,	High
9.	Cedar street, east side, near Main,	High
10.	Main street, S. E. corner Myrtle,	High

Track Hydrants—For Car Sprinklers.

(*All belong to Street Watering Department.*)

No.	Location.	Service.
1.	North Main street, at Morgan,	Low
2.	Bradford street, at Plainfield,	Low
3.	Hyde avenue, at Plainfield street,	High
4.	Wason avenue, at North Main street,	Low
5.	Hooker street, at North Main,	High
6.	Montmorenci street, at Chestnut,	Low

No.	Location.	Service.
7.	Liberty street, at Charles,	High
8.	Liberty street, at Armory,	High
9.	Worthington street, east of Federal,	High
10.	Amherst street, at Princeton,	High
11.	Catharine street, at Pease,	High
12.	College street, at State,	High
13.	State street, west of No. 1365,	High
14.	Hancock street, near State,	High
15.	St. James avenue, at Bay street,	High
16.	High street, at Walnut,	High
17.	Central street, at top of hill,	High
18.	King street, near Eastern avenue,	High
19.	Mill street, opposite Lincoln hall,	High
20.	White street, at Gordon,	High
21.	Sumner avenue, at Belmont (west),	High
22.	Sumner avenue, opposite car barn,	High
23.	Litchfield street, at Belmont avenue,	High
24.	Fort Pleasant avenue, at Riverview terrace,	High
25.	Main street, at Norwood,	Low
26.	Maple street, at Park,	High
27.	Elm street, at Court square,	High

APPENDIX XVII.

WATERING TANKS AND DRINKING FOUNTAINS

CONNECTED WITH THE WORKS.

Bradford street, at Plainfield,	1
Court street, at Court square,	1
Cypress street, at Main,	1
Liberty street, at Armory,	1
Main street, at Court square ("Wesson" drinking fountain),	1
Main street, Indian Orchard, at Oak,	1
Mill street, at Main,	1
Mill street, at Water Shops,	1
State street, at Federal,	1
State street, at Winchester park,	1
State st., at Winchester park ("Willard" drinking fountain),	1
State street, at Berkshire, opposite Catholic cemetery,	1
Sumner avenue, at Belmont,	1
Water street, at Court,	1
Worthington street, at Stearns park,	1
Total,	15

APPENDIX XVIII.

PUBLIC PARKS AND FOUNTAINS

CONNECTED WITH THE WORKS.

Benton park, State street, between Federal and Magazine,	1
Calhoun park, Chestnut street, between Calhoun street and Jefferson avenue (pond and fountain),	1
Clarendon park, Clarendon street, at Bay,	1
Concord terrace park, Concord terrace,	1
Dartmouth park, Dartmouth street, at Bay,	1
Floral park, Spruceland avenue, at Florentine gardens,	1
Forest park, Sumner avenue (pond and fountain),	1
Garfield triangle, Garfield street, between Fairfield and Greenleaf,	1
Kibbe park, Federal street, at Armory,	1
Magnolia terrace park, Magnolia terrace (two fountains),	1
McKnight park, Buckingham street, at Bay,	1
Mill street park, Mill street, at Pine,	1
Stearns park, between Bridge and Worthington streets,	1
Thompson park, St. James avenue, at Worthington street,	1
Westford circle, Westford avenue,	1
Winchester park, State street, at Wilbraham road (park only; —no fountain besides drinking fountain, classified elsewhere),	1
Total parks,	**16**

APPENDIX XIX.

WATER ANALYSIS,

LUDLOW INTERMITTENT FILTER—1906.

By G. H. SHAW. E. E. LOCHRIDGE, Engineer.

EXPLANATION.

Color, Oxygen Consumed, Dissolved Oxygen, Carbon Dioxide (CO_2), Free Ammonia (NH_3), Albuminoid Ammonia, and Iron stated in parts per million.

Platinum Cobalt standard used for color results.

Anabæna results expressed in standard units. About 1.5 cells per standard unit.

Res.—Reservoir water before filtration.

Filt.—Filtered water from effluent flume.

Basin.—Water as delivered to the city, i. e. filtered water after the open storage in small basin.

Temperature in degrees Fahrenheit.

Under Taste and Odor,

V indicates character of odor,—vegetable.

The numeral indicates its intensity, for example:—

0—Free from odor.
1—Faint odor, not discernible by users but detected in laboratory.
2—Faint odor, discernible by users.
3—Distinct odor.
4—Decided.
5—Very strong.

All of the Tastes and Odors recorded in these tables are taken with the water heated, which intensifies these odors.

* Under Anabæna indicates its presence, but not in amounts sufficient to count by the methods employed.

August.		TASTE.			ODOR.			TEMPERATURE.		COLOR.			ANABÆNA.			OXYGEN CONSUMED.	
		Res.	Filt.	Basin.	Res.	Filt.	Basin.	Res.	Filt.	Res.	Filt.	Basin.	Res.	Filt.	Basin.	Res.	Filt.
1	Wed.									58	48						
2	Thur.									46	42						
3	Fri.									48	36						
4	Sat.									56	32						
5	Sun.									58	34						
6	Mon.									58	36						
7	Tues.									58	32						
8	Wed.									56	36						
9	Thur.									62	34						
10	Fri.									58	36						
11	Sat.									58	36						
12	Sun.																
13	Mon.									60	32						
14	Tues.																
15	Wed.									56	38						
16	Thur.									60	38						
17	Fri.																
18	Sat.																
19	Sun.																
20	Mon.	3v	1v		2v	0				52	34	42	1,050	0	0		
21	Tues.	3v	1v		2v	0				52	32	40	1,700	0	0		
22	Wed.	3v	1v		2v	0				48	32	35	500	0	0	5.1	4.1
23	Thur.	3v	1v		2v	0				48	32	35	400	0	0	5.8	3.7
24	Fri.	3v	1v		2v	0				50	32	35	1,850	0	0	4.8	4.1
25	Sat.	3v	1v		2v	0				48	28	28	2,600	0	2	5.1	3.7
26	Sun.																
27	Mon.	3v	1v	1v	2v	0	1v			55	28	28	50	0	2	4.7	3.4
28	Tues.	3v	1v	1v	2v	0	1v			48	30	25	125	0	0	5.2	3.5
29	Wed.	3v	1v	1v	2v	0	1v			45	22	30	1,350	0	0	5.2	4.4
30	Thur.	3v	1v	1v	2v	0	1v			45	25	28	300	0	0	5.1	3.4
31	Fri.	3v	1v	1v	2v	0	1v			45	22	28	125	0	0	4.5	2.9
Average,		3v	1v	1v	2v	0	1v			53	33	32	913	0	0	5.5	3.7
September.																	
1	Sat.	3v	1v	1v	2v	0	1v			45	22	20	275	0	0	5.1	3.4
2	Sun.																
3	Mon.	3v	1v	1v	2v	0	1v			58	35	30	225	0	0		
4	Tues.	3v	1v	1v	2v	0	1v	72°	70°	48	30	35	*	0	0	4.7	2.9
5	Wed.	3v	1v	1v	3v	0	1v	70°	70°	55	35	32	*	0	0	4.7	3.5
6	Thur.	3v	1v	2v	3v	0	1v	70°	69°	50	35	32	*	0	0	4.3	3.5
7	Fri.	3v	1v	2v	3v	0	1v	69°	69°	48	30	32	*	0	0	4.2	2.9
8	Sat.	3v	1v	2v	3v	0	1v	70°	69°	48	28	35	*	0	0	4.1	2.8
9	Sun.	2v	1v		3v	0	1v										
10	Mon.	2v	1v		3v	0	1v	73°	73°	50	28	32	*	0	0	4.2	2.9
11	Tues.	2v	1v		3v	0	1v	71°	72°	50	28	32	100	0	0	3.9	2.3
12	Wed.	2v	0	1v	3v	0	1v	72°	72°	52	28	32	*	0	0	4.1	2.7
13	Thur.	2v	0	1v	3v	0	1v	72°	72°	48	28	30	*	0	0	4.5	2.9
14	Fri.	2v	0	1v	3v	0	1v	72°	71°	55	28	35	*	0	0	4.6	3.3
15	Sat.	2v	0	1v	3v	0	1v	70°	69°	52	28	32	110	0	0	4.1	2.7
16	Sun.																
17	Mon.	3v	0	1v	3v	1v	2v	69°	68°	48	27	32	82	0	0	4.0	2.7
18	Tues.	3v	0	1v	3v	1v	2v	69°	69°	38	27	27	36	0	0	3.9	2.9
19	Wed.									38	25	28	54	0	0		
20	Thur.																
21	Fri.	3v	0	1v	3v	1v	2v	71°	71°	38	28	32	16	0	0	4.3	3.6
22	Sat.	3v	0	1v	3v	1v	2v	72°	71°	42	27	32	170	0	0	3.8	3.2
23	Sun.																
24	Mon.	3v	0	1v	3v	0	2v	69°	69°	52	26	28	4	0	0	3.9	2.8
25	Tues.	3v	0	1v	3v	0	2v	66°	67°	48	26	28	34	0	0	4.3	2.9
26	Wed.	3v	0	1v	3v	0	2v	66°	66°	48	28	28	0	0	0	4.4	2.9
27	Thur.	3v	0	1v	3v	1v	2v	66°	67°	48	32	28	0	0	0	3.9	3.1
28	Fri.	3v	0	1v	3v	1v	2v	65°	65°	48	28	30	0	0	0	4.6	3.2
29	Sat.																
30	Sun.																
Average,		3v		1v	3v		1v	70°	69°	48	28	31	49	0	0	4.3	3.0

DISSOLVED OXYGEN.		CO_2		FREE NH_3		ALB. NH_3		IRON.		PER CENT. REMOVED.						August.	
Res.	Filt.	Res.	Filt.	Res.	Filt.	Res.	Filt.	Res.	Filt.	Color.	Ana-bæna.	Oxgn. Cons.	Free NH_3	Alb. NH_3	Iron.		
										17						Wed.	1
										9						Thur.	2
										25						Fri.	3
										43						Sat.	4
										41						Sun.	5
										38						Mon.	6
										45						Tues.	7
										36						Wed.	8
										45						Thur.	9
										38						Fri.	10
										38						Sat.	11
																Sun.	12
										47						Mon.	13
																Tues.	14
										32						Wed.	15
										37						Thur.	16
																Fri.	17
																Sat.	18
																Sun.	19
										35	100					Mon.	20
4.50	7.58									38	100					Tues.	21
6.19	7.34									33	100	20				Wed.	22
4.82	7.01									33	100	36				Thur.	23
7.79	7.75									36	100	15				Fri.	24
8.34	8.06							.60	.60	42	100	27				Sat.	25
																Sun.	26
5.34	7.71									49	100	28				Mon.	27
7.40	7.55									38	100	33				Tues.	28
7.48	7.67									51	100	17				Wed.	29
6.46	7.54									44	100	33				Thur.	30
7.33	7.41	3.5	4.1							51	100	36				Fri.	31
6.56	7.56									38	100	27				Average.	
																September.	
7.59	8.49	3.0	4.0	.026	.001	.160	.160	.55	.46	51	100	33	74	34	16	Sat.	1
																Sun.	2
6.79	7.29	4.0	7.5							40	100					Mon.	3
6.78	8.04	4.8	9.0							38		38				Tues.	4
7.50	7.74	4.0	8.0							36		26				Wed.	5
7.43	8.13	4.6	8.0							30		19			30	Thur.	6
7.62	8.12	4.0	5.2	.017	.000	.172	.116	.86	.60	38		31	100	33	36	Fri.	7
8.32	8.05	3.8	6.4					.90	.58	42		32				Sat.	8
																Sun.	9
8.33	7.63	2.8	5.8							44		31				Mon.	10
7.99	7.74	4.0	6.8							41	100	41				Tues.	11
8.11	7.65	3.4	5.8							46		34				Wed.	12
7.75	7.55	3.2	6.0	.000	.000	.163	.067			42		36		59		Thur.	13
6.63	7.75	5.0	6.8					.92	.35	49		28			62	Fri.	14
8.33	7.93	3.0	5.8							46	100	34				Sat.	15
																Sun.	16
8.66	8.61	4.0	7.6							44	100	33				Mon.	17
8.64	7.99	3.4	5.6							29	100	36				Tues.	18
										34	100					Wed.	19
																Thur.	20
8.45	7.42	2.6	6.2					.88	.48	26	100	16			45	Fri.	21
8.66	7.98	2.0	5.2	.000	.000	.204	.122			36	100	16		40		Sat.	22
																Sun.	23
8.02	7.87	3.0	6.5							50	100	28				Mon.	24
8.38	8.18	2.7	5.8							46	100	33				Tues.	25
8.28	8.72	3.3	4.6					1.22	.51	42		34			58	Wed.	26
8.02	8.78	4.4	5.1	.000	.000	.164	.098			33		21		40		Thur.	27
8.31	8.61	4.5	6.7							42		30				Fri.	28
																Sat.	29
																Sun.	30
7.94	8.03	3.6	6.3	.009	.000	.173	.113	.89	.50	41	100	30	98	35	44	Average.	

		TASTE.			ODOR.			TEMPERATURE.		COLOR.			ANABÆNA.			OXYGEN CONSUMED.	
October.		Res.	Filt.	Basin.	Res.	Filt.	Basin.	Res.	Filt.	Res.	Filt.	Basin.	Res.	Filt.	Basin.	Res.	Filt.
1	Mon.	3v	0	1v	3v	0	1v	65°	66°	44	27	28	0	0	0		
2	Tues.	3v	0	1v	3v	0	1v	64°	66°	38	27	28	0	0	0	4.1	3.1
3	Wed.	3v	0	1v	3v	0	1v	64°	63°	35	26	28	0	0	0	4.0	2.8
4	Thur.	3v	0	1v	3v	0	1v	64°	63°	38	27	28	0	0	0		
5	Fri.	3v	0	1v	3v	0	1v	64°	64°	35	26	28	0	0	0	4.1	3.0
6	Sat.	3v	0	1v	3v	0	1v	63°	63°	42	24	27	0	0	0		
7	Sun.																
8	Mon.																
9	Tues.	2v	0	0	2v	0	1v	60°	60°	35	24	26	0	0	0	4.3	2.8
10	Wed.	2v	0	0	2v	0	1v	60°	59°	36	23	25	0	0	0		
11	Thur.	2v	0	0	2v	0	1v	59°	58°	35	22	25	0	0	0	4.0	2.6
12	Fri.																
13	Sat.																
14	Sun.																
15	Mon.									35							
16	Tues.									35							
17	Wed.									35							
18	Thur.									35							
19	Fri.									35							
20	Sat.									35							
21	Sun.																
22	Mon.	2v	0	2v	3v	1v	3v	55°	55°	35	25	35	0	0	0	4.1	3.3
23	Tues.	2v	0	1v	3v	1v	2v	55°	56°	35	24	32	0	0	0		
24	Wed.	2v	0	1v	3v	1v	1v	55°	56°	35	23	27	0	0	0	4.0	3.0
25	Thur.	2v	0	1v	3v	1v	1v	55°	55°	35	24	27	0	0	0		
26	Fri.	2v	0	1v	3v	1v	1v	55°	55°	36	26	28	0	0	0	4.2	3.4
27	Sat.	2v	0	1v	3v	1v	1v	55°	55°	35	25	27	0	0	0		
28	Sun.																
29	Mon.																
30	Tues.	2v	0	1v	3v	2v	1v	52°	52°	42	23	27	0	0	0		
31	Wed.	2v	0	1v	3v	2v	1v	50°	49°	42	26	28	0	0	0	5.7	4.4
Average,		2v	0	1v	3v	1v	1v	59°	59°	37	25	28	0	0	0	4.3	3.2
November.																	
1	Thur.	2v	0	1v	3v	2v	1v	49°	48°	45	32	32	0	0	0		
2	Fri.	2v	0	1v	3v	2v	1v	47°	46°	47	32	32	0	0	0	5.0	4.5
3	Sat.	2v	0	1v	3v	2v	1v	48°	47°	47	35	32	0	0	0		
4	Sun.																
5	Mon.	2v	1v	1v	1v	0	0	46°	47°	47	32	32	0	0	0		
6	Tues.	2v	1v	1v	1v	0	0	46°	46°	47	32	32	0	0	0	4.5	4.1
7	Wed.	2v	1v	1v	1v	0	0	46°	46°	47	32	32	0	0	0	5.0	4.1
8	Thur.	2v	1v	1v	1v	0	0	46°	45°	47	32	32	0	0	0		
9	Fri.	2v	1v	1v	1v	0	0	44°	45°	47	32	32	0	0	0	5.0	4.2
10	Sat.	2v	1v	1v	1v	0	0	44°	44°	47	32	30	0	0	0		
11	Sun.																
12	Mon.	2v	1v	1v	1v	0	0	43°	43°	47	30	32	0	0	0		
13	Tues.	2v	0	1v	1v	0	0	42°	41°	47	30	32	0	0	0	4.7	3.8
14	Wed.	2v	0	1v	1v	0	0	41°	41°	44	28	32	0	0	0		
15	Thur.	2v	0	1v	1v	0	0	41°	40°	44	28	32	0	0	0	4.9	3.9
16	Fri.	2v	0	1v	1v	0	0	38°	39°	47	28	32	0	0	0		
17	Sat.	2v	0	1v	1v	0	0	39°	39°	43	32	32	0	0	0		
18	Sun.																
19	Mon.	1v	0	0	2v	1v	1v			44	27	32	0	0	0	5.0	4.1
20	Tues.	1v	0	0	2v	1v	1v			44	28	32	0	0	0		
21	Wed.									44	27	32					
22	Thur.									44	27	32					
23	Fri.									44	28	28					
24	Sat.									44	32	32					
25	Sun.																
26	Mon.	1v	0	0	2v	0	1v			44	32	33	0	0	0	4.2	3.4
27	Tues.	1v	0	0	2v	0	1v			44	30	30	0	0	0		
28	Wed.									44	32	32					
29	Thur.																
30	Fri.									44	32	32					
Average,		2v		1v	2v			44°	44°	45	30	32	0	0	0	4.8	4.0

DISSOLVED OXYGEN.		CO_2		FREE NH_3		ALB. NH_3		IRON.		PER CENT. REMOVED.							
Res.	Filt.	Res.	Filt.	Res.	Filt.	Res.	Filt.	Res.	Filt.	Color.	Anabæna.	Oxgn. Cons.	Free NH_3	Alb. NH_3	Iron.	**October.**	
8.77	8.54	4.4	4.7							39						Mon.	1
8.96	8.68	2.6	4.4							29		24				Tues.	2
9.31	8.92	3.2	4.3							26		30				Wed.	3
8.95	9.19	2.9	4.8							29						Thur.	4
8.95	8.95	2.8	5.1	.000	.000	.136	.074	.89	.30	26		27		46	66	Fri.	5
8.02	8.53	4.4	5.6							43						Sat.	6
																Sun.	7
																Mon.	8
9 34	9.31	2.3	3.0							32		35				Tues.	9
9.06	9.46	3.2	4.8							36						Wed.	10
	9.14	3.9	5.9							37		35				Thur.	11
																Fri.	12
																Sat.	13
																Sun.	14
																Mon.	15
																Tues.	16
																Wed.	17
																Thur.	18
																Fri.	19
																Sat.	20
																Sun.	21
10.40	10.20	2.5	4.1							29		20				Mon.	22
10.50	10.22	3.2	5.5							31						Tues.	23
10.63	10.41	2.4	4.0	.000	.000	.184	.120	.72	.50	34		25		35	31	Wed.	24
9.94	9.83									31						Thur.	25
9.75	10.38	3.3	4.5							28		19				Fri.	26
10.34	10.35									29						Sat.	27
																Sun.	28
																Mon.	29
9.92	10.80	3.7	5.7							45						Tues.	30
9.74	10.94	3.5	5.3							38		23				Wed.	31
9.54	9.64	3.2	4.8	.000	.000	.160	.097	.81	.40	33		26		39	50	Average.	
																November.	
10.58	11.29	3.1	4.6							29						Thur.	1
10.59	11.49	3.2	4.3	.016	.000	.186	.124	.78	.65	32		10	100	33	17	Fri.	2
10.78	11.46	3.0	3.9							26						Sat.	3
																Sun.	4
10.95	11.27	2.8	4.0							32						Mon.	5
11.05	11.30	3.2	5.2							32		9				Tues.	6
11.07	11.35	3.0	4.0							32		18				Wed.	7
11.21	11.65	2.2	4.0					.53	.25	32		16			53	Thur.	8
11.01	11.44	3.5	4.3	.003	.000	.174	.114	.54	.25	32		16	100	35	54	Fri.	9
11.06	11.55	2.9	4.2							32						Sat.	10
																Sun.	11
11.04	11.60	4.0	4.5							36						Mon.	12
11.04	11.93	3.8	4.2							36		19				Tues.	13
11.02	12.03	3.6	4.8							36						Wed.	14
11.36	12.06									36		20				Thur.	15
	12.50							.56	.29	40					48	Fri.	16
11.72	12.03			.016	.001	.174	.094			26			94	46		Sat.	17
																Sun.	18
11.77	11.86									39		18				Mon.	19
11.85	12.03			.004	.001	.131	.115			36			75	12		Tues.	20
11.82	12.06									39						Wed.	21
11.81	11.83									39						Thur.	22
										36						Fri.	23
								.52	.41	27					21	Sat.	24
																Sun.	25
12.07	12.23	3.3	4.7							27		19				Mon.	26
12.12	12.23									32						Tues.	27
12.31	12.14	3.1	4.2							27						Wed.	28
																Thur.	29
12.12	13.08	2.9		.006	.002	.166	.122	.80	.38	27					53	Fri.	30
11.38	11.84	3.2	4.1	.009	.001	.166	.114	.62	.37	33		16	91	32	40	Average.	

APPENDIX XX.

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF JABISH CANAL, Springfield, 1906. (Parts in 100,000.)

NO.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Albuminoid. Total.	Albuminoid. Solution.	Albuminoid. Susp.		as Nitrates.	as Nitrites.		
58871	Jan. 2	Jan. 3	V. Slt.	V. Slt.	.33	F. Veg.	Dis. Veg.	3.40	1.20	2.20	.0024	.0132	.0124	.0008	.15	.0020	.0000	.49	1.0
59538	Mar. 6	Mar. 7	Slight	Slight	.35	V. F.Veg.	F. Veg.	2.55	1.05	1.50	.0024	.0134	.0122	.0012	.12	.0040	.0000	.36	0.6
60102	April 4	April 5	V. Slt.	V. Slt.	.27	Dis. Veg.	Dis. Veg.	3.20	1.35	1.85	.0004	.0092	.0082	.0010	.13	.0030	.0001	.33	0.8
60890	June 6	June 7	V. Slt.	V. Slt.	.60	F. Veg.	Dis. Veg.	4.60	1.60	3.00	.0022	.0174	.0158	.0016	.12	.0020	.0001	.61	0.8
61441	July 10	July 11	V. Slt.	V. Slt.	.60	Dis. Veg.	Dec. Veg.	3.60	1.60	2.00	.0026	.0170	.0158	.0012	.10	.0030	.0001	.66	0.8
61822	Aug. 1	Aug. 2	Slight	V. Slt.	.45	F. Veg.	F. Unpl.	4.80	1.50	3.30	.0022	.0156	.0138	.0018	.15	.0020	.0001	.56	1.1

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF BROAD BROOK, Springfield, 1906. (Parts in 100,000.)

NO.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Albuminoid. Total.	Albuminoid. Solution.	Albuminoid. Susp.		as Nitrates.	as Nitrites.		
58869	Jan. 2	Jan. 3	V. Slt.	Slight	.50	V. F.Veg.	F. Veg.	3.70	1.45	2.25	.0020	.0100	.0094	.0006	.16	.0040	.0000	.34	1.4
59539	Mar. 6	Mar. 7	V. Slt.	V. Slt.	.62	V. F.Veg.	F. Veg.	3.90	1.50	2.40	.0030	.0144	.0124	.0020	.16	.0070	.0000	.59	0.6
60106	April 4	April 5	V. Slt.	V. Slt.	.51	F. Veg.	Dis. Veg.	3.75	1.45	2.30	.0024	.0138	.0120	.0018	.14	.0040	.0000	.54	0.8
60888	June 6	June 7	V. Slt.	Slight	1.40	F. Veg.	Dis. Veg.	5.30	2.35	2.95	.0032	.0280	.0268	.0012	.12	.0020	.0000	.88	1.0
61439	July 10	July 11	V. Slt.	Slight	.82	Dis. Veg.	Dis. Veg.	4.45	1.95	2.50	.0026	.0194	.0174	.0020	.12	.0050	.0000	.82	1.8
61820	Aug. 1	Aug. 2	V. Slt.	Slight	.83	None	V. F.Veg.	6.25	2.90	3.35	.0030	.0260	.0224	.0036	.18	.0030	.0001	.98	1.6

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF AXE FACTORY BROOK, Springfield, 1906. (Parts in 100,000.)

No.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Albuminoid.				as Nitrates.	as Nitrites.		
												Total	Solution.	Susp.					
58868	Jan. 2	Jan. 3	V. Slt.	V. Slt.	.33	V.F. Veg.	F. Veg.	3.70	1.45	2.25	.0020	.0100	.0094	.0006	.16	0040	.0000	.34	1.4
59540	Mar. 6	Mar. 7	V. Slt.	Slight	.31	V.F. Veg.	F. Veg.	3.40	1.15	2.25	.0020	.0132	.0110	.0022	.19	.0040	.0000	.34	0.8
60098	Apr. 4	Apr. 5	V. Slt.	V. Slt.	.28	F. Veg.	Dis. Veg.	2.95	1.20	1.75	.0014	.0124	.0104	.0020	.16	0030	.0000	.33	0.8
60887	June 6	June 7	Slight	Slight	.78	F. Veg.	Dis. Veg.	4.30	2.15	2.15	.0026	.0258	.0210	.0048	.10	.0020	.0000	.88	1.1
61438	July 10	July 11	V. Slt.	V. Slt.	.53	F. Veg.	Dis. Veg.	4.30	1.85	2.45	.0020	.0178	.0162	.0016	.13	.0060	.0000	.82	1.6
61819	Aug. 1	Aug. 2	V. Slt.	V. Slt.	.48	None	V.F. Veg.	5.84	2.70	3.15	.0018	.0206	.0192	.0014	.20	.0030	.0002	.78	1.7

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF LUDLOW CANAL, Springfield, 1906. (Parts in 100,000.)

No.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Albuminoid.				as Nitrates.	as Nitrites.		
												Total	Solution.	Susp.					
58872	Jan. 2	Jan. 3	V. Slt.	V. Slt.	.35	V.F. Veg.	V.F. Veg.	3.65	1.30	2.35	.0026	.0108	.0102	.0006	.14	.0040	.0000	.33	1.0
59090	Jan. 30	Jan. 31	V. Slt.	V. Slt.	.32	F. Veg.	Dis. Veg.	3.40	1.05	2.35	.0010	.0090	.0082	.0008	.18	.0070	.0000	.88	0.6
59404	Feb. 27	Feb. 28	Slight	Cons.	.35	F. Veg.	Dis. Veg.	3.30	1.05	2.25	.0014	.0138	.0114	.0024	.13	.0050	.0002	.42	0.6
59674	Mar. 13	Mar. 15	V. Slt.	Slight	.28	V.F. Veg.	F. Unpl.	3.10	0.85	2.25	.0010	.0092	.0082	.0010	.13	.0040	.0001	.28	0.6
60104	Apr. 4	Apr. 5	V. Slt.	V. Slt.	.29	F. Unpl.	F. Unpl.	3.05	1.05	2.00	.0006	.0106	.0102	.0004	.14	.0020	.0001	.27	0.5
60868	June 5	June 6	V. Slt.	Slight	.70	Dis. Veg.	Dis. Veg.	3.95	1.90	2.05	.0030	.0180	.0170	.0010	.12	.0020	.0001	.67	0.8
61397	July 5	July 6	Slight	Slight	.76	Dis. Veg.	Dis. Veg.	3.95	1.65	2.30	.0028	.0218	.0198	.0020	.11	.0020	.0000	.89	1.0
61442	July 10	July 11	V. Slt.	V. Slt.	.62	Dis. Veg.	Dis. Veg.	4.05	1.60	2.45	.0018	.0156	.0148	.0008	.12	.0030	.0000	.66	1.0
61797	July 31	Aug. 1	V. Slt.	Slight	.64	V.F. Veg.	F. Veg.	4.50	1.75	2.85	.0026	.0210	.0204	.0006	.20	.0090	.0000	.76	1.4
63240	Oct. 10	Oct. 12	Slight	Slight	.93	Dis. Veg.	Dec. Veg.	5.35	2.50	2.85	.0020	.0324	.0244	.0080	.35	.0030	.0001	1.04	2.0
63554	Nov. 1	Nov. 2	Slight	V. Slt.	.53	F. Veg.	Dis. Veg.	4.50	1.90	2.60	.0038	.0170	.0156	.0014	.20	.0060	.0000	.68	1.6

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF HIGHER BROOK, Springfield, 1906. (Parts in 100,000.)

No.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Albuminoid.				as Nitrates.	as Nitrites.		
												Total	Solution.	Susp.					
58870	Jan. 2	Jan. 3	V. Slt.	V. Slt.	.36	F. Veg.	Dis. Veg.	3.20	1.20	2.00	.0018	.0102	.0098	.0004	.13	.0000	.0000	.45	0.5
59541	Mar. 6	Mar. 7	V. Slt.	V. Slt.	.31	V. F. Veg.	V. F. Veg.	2.15	0.95	1.20	.0018	.0094	.0090	.0004	.14	.0000	.0000	.34	0.5
60101	Apr. 4	Apr. 5	V. Slt.	V. Slt.	.32	F. L. Veg.	F. Veg.	2.40	0.75	1.65	.0004	.0094	.0082	.0012	.11	.0000	.0001	.34	0.3
60889	June 6	June 7	V. Slt.	V. Slt.	.72	F. Veg.	Dis. Veg.	3.65	1.60	2.05	.0036	.0196	.0180	.0016	.08	.0010	.0000	.83	0.5
61440	July 10	July 11	V. Slt.	V. Slt.	.63	F. Veg.	F. Veg.	3.25	1.50	1.75	.0020	.0180	.0152	.0028	.08	.0010	.0000	.78	0.5
61821	Aug. 1	Aug. 2	V. Slt.	V. Slt.	.71	None	V. F. Veg.	4.40	1.80	2.60	.0016	.0224	.0192	.0032	.10	.0020	.0000	.98	0.8

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF LUDLOW RESERVOIR, Springfield, 1906. (Parts in 100,000.)

No.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Albuminoid.				as Nitrates.	as Nitrites.		
												Total	Solution.	Susp.					
58873	Jan. 2	Jan. 3	V. Slt.	Slight	.27	F. Unpl.	Dis. Unpl.	2.75	1.10	1.65	.0010	.0170	.0138	.0032	.14	.0020	.0001	.38	0.8
59091	" 30	" 31	V. Slt.	V. Slt.	.27	V. F. Veg.	F. Unpl.	3.20	1.10	2.10	.0024	.0138	.0112	.0026	.19	.0020	.0001	.38	0.6
59405	Feb. 27	Feb. 28	Slight	Slight	.27	F. Veg.	F. Veg.	2.75	0.90	1.85	.0016	.0136	.0012	.0024	.12	.0030	.0002	.34	0.6
59675	Mar. 6	Mar. 7	V. Slt.	Slight	.23	F. Veg.	F. Veg.	2.75	0.85	1.90	.0006	.0130	.0110	.0020	.14	.0030	.0002	.30	0.8
59543	" 13	" 15	V. Slt.	V. Slt.	.36	F. Veg.	F. Veg.	2.55	0.95	1.75	.0014	.0128	.0100	.0028	.15	.0030	.0001	.31	0.5
60105	Apr. 4	Apr. 5	Slight	Slight	.22	Dis. Unpl.	Dis. Unpl.	3.30	1.10	2.20	.0008	.0136	.0106	.0030	.15	.0020	.0001	.28	0.5
60869	June 5	June 6	Slight	Cons.	.30	Dis. Veg.	*Dec. Veg	3.70	1.45	2.25	.0024	.0198	.0136	.0062	.15	.0010	.0001	.36	0.5
61389	July 5	July 6	Slight	slt&sc'm	.30	F. Veg.	*Dis. Veg.	3.40	1.60	1.80	.0080	.0280	.0226	.0054	.12	.0010	.0001	.44	0.0
61443	" 10	" 11	V. Slt.	Slight	.33	Dis. Unpl.	Dis. Veg.	2.65	1.45	1.20	.0112	.0194	.0184	.0010	.10	.0020	.0000	.48	0.8
61798	" 31	Aug. 1	Slight	Slight	.30	V. F. Veg.	V. F. Veg.	2.90	1.15	1.75	.0022	.0206	.0156	.0050	.14	.0010	.0000	.40	1.0
61823	Aug. 1	" 2	V. Slt.	Slight	.24	V. F. Veg.	*F. Sweet	3.35	1.35	2.00	.0008	.0190	.0154	.0036	.13	.0010	.0000	.39	0.8
63241	Oct. 10	Oct. 12	Slight	Slight	.27	F. Veg.	Dis. Veg.	3.40	1.55	1.85	.0086	.0290	.0236	.0054	.16	.0000	.0000	.35	1.3
63555	Nov. 1	Nov. 2	Slight	Slight	.35	F. Veg.	Dis Sweet	3.05	1.10	1.95	.0032	.0236	.0180	.0056	.16	.0000	.0000	.44	1.0

* Anabæna.

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF LUDLOW BASIN, Springfield, 1906. (Parts in 100,000.)

NO.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
												Albuminoid.							
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Total.	Solution.	Susp.		as Nitrates.	as Nitrites.		
63556	Nov. 1	Nov. 2	V. Slt.	V. Slt.	.28	F. Veg.	Dis. Veg.	3.35	1.25	2.10	.0016	.0180	.0164	.0016	.15	.0010	.0000	.30	1.8
61823	Aug. 1	Aug. 2	V. Slt.	Slight	.24	V. F and Sweetish	F.Sw'tish	3.35	1.35	2.00	.0008	.0190	.0154	.0036	.13	.0010	.0000	.39	0.8

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF LUDLOW FILTER, Springfield, 1906. (Parts in 100,000.)

No.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.	Iron.
												Albuminoid.								
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Total	Solution.	Susp.		as Nitrates.	as Nitrites.			
63557	Nov. 1.	Nov. 2	V. Slt.	V. Slt.	.29	V.F.Unpl	F. Unpl.	2.00	....	....	.0012	.0162	....	....	.16	.0030	.0000	.21	1.1	.0350

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF CHAPIN POND, Springfield, 1906. (Parts in 100,000.)

NO.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
											Free.	ALBUMINOID.							
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.		Total.	Solution.	Susp.		as Nitrates.	as Nitrites.		
59088	Jan. 30	Jan. 31	V. Slt.	Slight	.08	V. F. Veg.	V. F. Veg.	1.90	0.75	1.15	.0040	.0148	.0124	.0024	.12	.0040	.0000	.21	0.5
59402	Feb. 27	Feb. 28	Slight	Slight	.08	V. F. Veg.	F. Veg.	2.15	0.75	1.40	.0042	.0152	.0118	.0034	.12	.0010	.0001	.17	0.3
59544	Mar. 6	Mar. 7	Slight	Cons.	.06	V. F. Veg.	F. Unpl.	2.00	0.75	1.25	.0038	.0168	.0130	.0038	.10	.0010	.0001	.16	0.5
60099	Apr. 4	Apr. 5	V. Slt.	Slight	.08	F. Unpl.	Dis. Unpl.	2.80	1.20	1.60	.0030	.0186	.0120	.0066	.10	.0010	.0001	.19	0.3
60865	June 5	June 6	V. Slt.	V. Slt.	.08	Dis. Veg.	*Dis Unpl	2.30	1.00	1.30	.0014	.0186	.0154	.0032	.14	.0010	.0000	.21	0.5
61394	July 5	July 6	Slight	Slight	.02	F. Veg.	F. Veg.	2.50	1.15	1.35	.0010	.0210	.0172	.0038	.11	.0020	.0000	.24	0.5
61794	" 31	Aug. 1	Slight	Slight	.08	V. F. Veg.	V. F. Veg.	2.25	1.00	1.25	.0010	.0186	.0146	.0040	.11	.0010	.0000	.20	0.3

* Anabæna.

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF FIVE MILE POND, Springfield, 1906. (Parts in 100,000.)

NO.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
											Free.	ALBUMINOID.							
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.		Total.	Solution.	Susp.		as Nitrates.	as Nitrites.		
59089	Jan. 30	Jan. 31	V. Slt.	Slight	.08	F. Veg.	F. Veg.	2.40	0.80	1.60	.0092	.0142	.0116	.0026	.17	.0030	.0001	.21	0.3
59403	Feb. 27	Feb. 28	V. Slt.	Slight	.07	F. Veg.	F. Veg.	2.55	0.80	1.75	.0102	.0150	.0146	.0004	.15	.0030	.0008	.17	0.6
59445	Mar. 6	Mar. 7	Slight	Slight	.10	V. F. Veg.	F. Veg.	2.60	0.95	1.75	.0100	.0140	.0130	.0010	.14	.0030	.0001	.16	0.8
60100	Apr. 4	Apr. 5	V. Slt.	V. Slt.	.07	F. Veg.	F. Veg.	2.95	1.25	1.70	.0048	.0150	.0134	.0016	.18	.0030	.0001	.16	0.3
60866	June 5	June 6	V. Slt.	slt&sc'm	.10	F. Veg.	Dis. Veg.	3.00	1.45	1.55	.0028	.0220	.0186	.0034	.16	.0020	.0000	.22	0.6
61395	July 5	July 6	V. Slt.	slt&sc'm	.10	F. Veg.	Dis. Veg.	3.25	1.20	2.05	.0028	.0216	.0194	.0022	.18	.0010	.0000	.26	0.6
61795	" 31	Aug. 1	V. Slt.	Slight	.14	V. F. Veg.	V. F. Veg.	2.60	1.35	1.25	.0014	.0226	.0192	.0034	.15	.0010	.0000	.24	0.3

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF LOON POND, Springfield, 1906. (Parts in 100,000.)

No.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
												ALBUMINOID.							
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Total	Solution.	Susp.		as Nitrates.	as Nitrites.		
59546	Mar. 6	Mar. 7	Slight	Slight	.05	V. F. Veg.	F. Veg.	2.70	0.95	1.75	.0032	.0172	.0166	.0006	.25	.0030	.0001	.18	0.6
60103	Apr. 4	Apr. 5	V. Slt.	Slight	.02	F. Unpl.	*Dis Unpl	3.70	1.50	2.20	.0014	.0160	.0130	.0030	.22	.0020	.0001	.10	0.6
60867	June 5	June 6	V. Slt.	V. Slt.	.04	F. Veg.	F. Veg.	2.70	1.15	1.55	.0034	.0186	.0162	.0024	.24	.0010	.0000	.18	0.5
61396	July 5	July 6	V. Slt.	V. Slt.	.05	Dis. Veg	Dis. Veg.	2.70	1.20	1.50	.0024	.0206	.0180	.0026	.24	.0020	.0000	.18	1.0
61796	" 31	Aug. 1	V. Slt.	Slight	.07	V. F. Veg.	V. F. Veg.	2.55	1.25	1.30	.0008	.0174	.0152	.0022	.24	.0020	.0000	.18	0.6

* Fishy.

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF WESTFIELD LITTLE RIVER, Springfield, 1906. (Parts in 100,000.)

No.	DATE.		APPEARANCE.			ODOR.		RESIDUE.			AMMONIA.				Chlorine.	NITROGEN		Oxygen Consumed.	Hardness.
												ALBUMINOID.							
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total	Volatile.	Fixed.	Free.	Total	Solution.	Susp.		as Nitrates.	as Nitrites.		
58984	Jan. 21	Jan. 23	V. Slt.	Slight	.28	V. F. Veg.	F. Unpl.	3.25	1.20	2.05	.0008	.0100	.0088	.0012	.14	.0060	.0001	.34	0.8
59842	Feb. 22	Feb. 26	Slight	Cons.	.33	F. Veg.	F. Veg.	2.40	0.95	1.45	.0024	.0180	.0144	.0036	.12	.0040	.0002	.51	0.5
59509	Mar. 4	Mar. 6	Decid'd	C. Ethy	.37	F. Veg.	Dis. Unpl.	2.60	1.15	1.45	.0012	.0308	.0112	.0196	.07	.0030	.0001	.47	0.3
60156	Apr. 8	Apr. 10	Slight	Slight	.25	F. Veg.	F. Veg.	2.85	1.10	1.75	.0014	.0112	.0098	.0014	.09	.0020	.0000	.29	0.5
60469	May 6	May 8	V. Slt.	V. Slt.	.35	V. F. Veg.	F. Veg.	1.95	0.45	1.50	.0006	.0116	.0108	.0008	.10	.0030	.0000	.41	0.5
60870	June 3	June 6	V. Slt.	Slight	.68	F. Veg.	Dis. Veg.	3.30	1.15	2.15	.0030	.0164	.0148	.0016	.07	.0020	.0001	.70	0.5
61816	July 29	Aug. 1	V. Slt.	Slight	.43	None	F. Earthy	4.20	1.60	2.60	.0022	.0154	.0130	.0025	.07	.0030	.0001	.65	1.0
63503	Oct. 28	Oct. 30	V. Slt.	V. Slt.	.70	F. Veg.	Dis. Veg.	4.45	2.10	2.35	.0032	.0204	.0188	.0016	.21	.0020	.0000	.82	1.6
63998	Dec. 4	Dec. 6	V. Slt.	V. Slt.	.28	V. F. Ethy	dis V & ethy	2.95	1.00	1.95	.0008	.0070	.0064	.0006	.16	.0010	.0000	.39	1.3

STREETS AND SEWERS.

THIRTY-EIGHTH ANNUAL REPORT

OF THE

STREET DEPARTMENT.

SPRINGFIELD, MASS., December 28, 1906.

To the City Council:—

In accordance with the requirements of Chapter 19, Section 5, of the Revised Ordinances, I have the honor of presenting statements of receipts and expenditures of the Street Department, and descriptions of work done during the fiscal year ending December 10, 1906.

FINANCES IN GENERAL.

REGULAR ACCOUNTS.

RECEIPTS.

Highways and Bridges,	$207,204 46	
Walks and Curbing,	25,725 55	
Watering Streets,	36,051 30	
		$268,981 31

EXPENDITURES.

Highways and Bridges,	$204,238 84	
Walks and Curbing,	25,094 20	
Watering Streets,	33,036 29	
		$262,369 33

UNEXPENDED BALANCES.

Highways and Bridges,	$2,965 62	
Walks and Curbing,	631 35	
Watering Streets,	3,015 01	
		$6,611 98

SPECIAL ACCOUNT.

CITY YARD, SUMMER STREET.

Receipts,	$41,500 00	
Expenditures,	26,917 03	
Unexpended balance,		$14,582 97

WORK IN GENERAL.

Streets,	Graveling,	6,290 feet
	Macadamizing,	21,054 feet
	Macadam resurfacing,	7,526 feet
	Bitulithic paving,	3,351 feet
	Granite block paving and repaving,	1,641 feet
	Vitrified block paving,	145 feet
	Wood block paving,	1,150 feet
Street cleaning,	Gravel,	46.11 miles
	Macadam,	55.87 miles
	Paving,	8.9 miles
Sidewalks,	Brick (new),	771 feet
	Brick (relaid),	2,907 feet
	Tar concrete (new),	7,694 feet
	Tar concrete (resurfaced),	4,073 feet
	Cinder,	550 feet
Curbing,	Set,	10,567 feet
	Reset,	7,015 feet
Crosswalks—new,		41
Streets watered,		83.68 miles

FINANCES ITEMIZED.

HIGHWAYS AND BRIDGES.

RECEIPTS.

By regular appropriation,	$160,000 00	
From Springfield Street Railway Company,		
Corporation tax,	21,145 88	
Excise tax,	12,132 26	
From departments and private parties, bills rendered,	13,926 32	
		$207,204 46

EXPENDITURES.

Automobile, repairs and supplies,		$863 14	
Bridges, repairs and care,		1,833 82	
City yard, Logan street,		37 81	
City yard, Lyman street,		2,792 76	
City yard, Summer street,		1,133 66	
Engineering,		515 12	
Work and material charged to departments,		4,845 05	
Work and material charged to private parties,		9,001 52	
Land damages, account street relocations,		602 00	
Office and general expenses,		2,967 27	
Foremen's winter and holiday pay,		875 00	
Materials on hand,		655 52	
Salary of superintendent,		2,300 00	
Salary of second assistant superintendent, part,		821 70	
Steam roller house repairs and roller equipment,		964 62	
Street construction,	Grading and graveling,	5,280 81	
	Macadamizing,	36,663 10	
	Paving,	51,455 03	
Street maintenance,	Cleaning,	30,878 83	
	Cleaning equipment,	1,215 20	
	General repairs,	20,109 60	
	Macadam resurfacing,	9,249 81	
	Winter expenses,	17,828 09	
Tools and supplies,		2,188 64	
		$204,578 10	
Credit by City teams,		339 26	
		$204,238 84	
Unexpended balance,		2,965 62	
			$207,204 46

BILLS RECEIVABLE.

Bills unpaid December 10, 1905,	$17,613 27	
Bills committed, fiscal year 1906,	13,440 76	
		$31,054 03
Bills paid, fiscal year 1906,	$13,913 19	
Abatements,	16,001 65	
		29,914 84
Bills receivable December 10, 1906,		$1,139 19

WALKS AND CURBING.

RECEIPTS.

By regular appropriation,	$10,700 00	
From abutters for work done previous to 1906,	6,211 08	
From abutters for work done during 1906,	4,814 47	
Transferred from Watering Streets,	4,000 00	
		$25,725 55

EXPENDITURES.

Office and general expenses,	$654 37	
Salary of second assistant superintendent, part,	429 34	
Engineering,	471 09	
Setting and resetting curbing,	4,145 92	
Sidewalk repairs not chargeable,	581 06	
Work and material not chargeable,	839 12	
Crosswalks, new and relaid,	3,782 52	
Tools,	35 98	
Work and material charged to abutters,	10,238 52	
Work and material charged to departments,	1,069 83	
Material,	2,849 76	
	$25,097 51	
Credit by City teams,	3 31	
	$25,094 20	
Unexpended balance,	631 35	
		$25,725 55

BILLS RECEIVABLE.

Bills unpaid December 10, 1905,	$5,633 59	
Bills committed, fiscal year 1906,	12,002 64	
		$17,636 23
Bills paid, fiscal year 1906,	$11,025 55	
Abatements,	507 27	
		11,532 82
Bills receivable December 10, 1906,		$6,103 41

WATERING STREETS.

RECEIPTS.

By appropriation,	$9,500 00	
By watering streets assessments,	24,305 70	
From Springfield Street Railway Company, by agreement,	2,173 60	
By bills rendered,	72 00	
		$36,051 30

EXPENDITURES.

Equipment—one new cart,	$323 40	
General expenses,	385 40	
Standpipes and car hydrants, construction, maintenance, opening and closing,	1,555 05	
Standpipe bases, construction and maintenance,	283 42	
Watering carts, repairs and storage,	802 05	
For use of teams as per pay rolls,	1,815 25	
For use of teams as per contracts,	13,112 90	
American Car Sprinkler Company, as per contracts,	9,641 94	
Inspector,	929 76	
Inspector's horse and carriage,	187 12	
	$29,036 29	
Transferred to Walks and Curbing,	4,000 00	
	$33,036 29	
Unexpended balance,	3,015 01	
		$36,051 30

CITY YARD, SUMMER STREET.

RECEIPTS.

By sale of Lyman street yard, ...	$27,250 00	
By special appropriation, ...	14,250 00	
		$41,500 00

EXPENDITURES.

Land on Summer street, ...	$23,000 00	
Auctioneer, fee, ...	280 90	
Plans and specifications for building, . .	330 00	
Barn and wagon house (partial payment) as per contract, ...	3,200 00	
Miscellaneous, ...	106 13	
	$26,917 03	
Unexpended balance, ...	14,582 97	
		$41,500 00

WORK ITEMIZED.

BRIDGES.

REPAIRS AND CARE.

	Description of work.	Cost.
Armory street, over N. Y., N. H. & H. Railroad,	Floor repairs,	$130 65
Armory street, over Boston & Albany Railroad,	Floor repairs,	29 41
Berkshire street, Red House Crossing,	Replanking floor,	100 19
*Ludlow, I. O.,	Painting and sidewalk repairs,	486 69
Main street, I. O.,	Replanking floor,	181 70
North end,	Floor and sidewalk repairs and care,	79 70
Old Toll,	Repairs to truss, floor and roof, and care,	532 41
Pasco street, I. O.,	Replanking floor,	63 21
Plainfield street,	Replanking floor,	112 66
St. James avenue, over N. Y., N. H. & H. Railroad,	Floor repairs,	30 83
South end,	Floor repairs and care,	85 37
Sundry bridges,	Miscellaneous repairs,	1 00
		$1,833 82

---

* Includes $474.47, balance of the cost of painting done in 1905.

STREET CONSTRUCTION.

Fiscal year 1906.

GRADING AND GRAVELING.

Street.	Limits.	Length in feet.	Area in sq. yds.	Total cost.
Alderman street,	Sorrento avenue to Scott street,	310	1,205	**$658 15
*Hampden street, I.O.,	Chestnut street, 357 feet easterly,	357	1,428	263 01
*Horace street,	Dickinson to Orange street,	769	2,563	94 38
*Massasoit street,	Prospect street, 266 feet northerly,	266	887	116 81
*Melrose street,	Eastern avenue, 580 feet westerly,	580	1,482	106 84
Parker street, I. O.,	Station 875 to Station 2600,	1,725	4,217	1,228 31
Plumtree road,		1,400	2,800	560 96
Pomona street,	Scott street to Old Wilbraham road (incomplete),	151	503	**311 20
Scott street,	White to Alderman street,	642	2,140	**1,924 41
*Wilmont street,		90	400	16 74
		6,290	17,625	$5,280 81

* A part of the gravel which was used was obtained from other streets.

** Includes cost of curbing set in accordance with order of City Council.

STREET CONSTRUCTION.

MACADAM.

Street.	Limits.	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Total cost.
Andrew street,	Burr to Dawes street,	315	1,015	$0.61	$622 60
Armory street,	Liberty to Cleveland street,	1,119	3,698	.55	2,018 98
Bliss street,	Water street to N. Y., N. H. & H. R. R.,	271	903	.64	576 12
*Forest street,		784	2,502	.50	1,254 31
Forest Park avenue,	Fort Pleasant avenue to Forest street, 22½ feet in width,	1,760	4,475	.53	2,392 13
Forest Park avenue gutters,					368 89
Homer street,		582	1,940	.53	1,026 18
*James street,		928	2,356	.37	878 01
Lexington avenue,		622	1,659	.79	1,305 21
**Leyfred terrace,		625	2,102	.82	1,717 10
Lillian street,		387	989	.54	536 98
Maplewood terrace,	South side Fort Pleasant avenue to Forest Park avenue,	1,301	3,075	.54	1,655 79
*Mountainview street		682	2,330	.50	1,157 61
Oakland street,	Allen to Orange street,	1,605	5,350	.61	3,270 78
**Plainfield street,	Demond avenue to Rowland avenue,	1,137	3,160	.89	2,827 40
*Prospect street,	Massasoit to Carew street (incomplete),	817	2,996		1,012 06

STREET CONSTRUCTION.

MACADAM—CONTINUED.

Street.	Limits.	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Total cost.
Quincy street,	Hancock to Eastern avenue,	1,345	3,902	$0.46	$1,807 87
Sumner avenue,	Lenox street to east line Dickinson street,	484	4,254	.69	2,945 48
Union street,	Easterly of Oak, widening,		369	.43	157 74
Waltham avenue,		985	2,628	.47	1,245 73
Warwick street,	Haywood street easterly,	811	2,703	.60	1,619 49
Woodside terrace,	Gutters,				201 33
Worcester street, I.O.,	Oak street to Fiberloid Company's driveway, 18 feet in width,	4,494	8,988	.67	6,041 31
		21,054	61,394		$36,639 10

* A part of the trap rock which was used was obtained from other streets. Cost of this rock is not included.

** Includes the cost of cinder foundation.

Note. Areas and costs of gutter paving in connection with macadam are included in the above table.

STREET CONSTRUCTION.

PAVING.

Street.	Limits.	Material.	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Total cost.
Birnie avenue,	Northerly of Hooker street,	Johnsonburg vitrified blocks,	145	483	$1.89	$913.49
*Fulton street,	Cypress to Vine street,	Granite blocks,	1,125	3,006	.91	2,725.78
Hillman street,	Main to Dwight street,	Bitulithic,	648	2,025	2.11	4,281.01
Main street,	Bliss to William street,	Creo-resinate wood blocks,	1,150	6,460	3.37	21,796.45
Market street,	State to Harrison avenue,	Bitulithic,	968	1,887	2.30	4,337.70
North Main street,	Plainfield to Morgan street,	Bitulithic,	730	4,485	2.08	9,338.61
*Railroad street,	Water street easterly,	Granite blocks,	137	415	.80	330.35
Railroad street,	Main street westerly, relaying,	Granite blocks,	379	1,124	.52	582.16
Walnut street,	Lebanon to Hancock street,	Bitulithic,	1,005	3,334	2.06	6,852.87
			6,287	23,219		$51,158.42
Chestnut and Ferry streets, in anticipation of future paving,						296.61
						$51,455.03

Note. The Johnsonburg vitrified clay blocks and the creo-resinate gum wood blocks are laid on a 5″ Portland cement concrete foundation and ½″ cement mortar bed. The joints are filled with Portland cement grout.

The Bitulithic paving consists of bitulithic mixture rolled to a depth of two inches, upon a foundation of trap rock, which is rolled to a depth of five inches. Paving blocks are laid on a cement concrete foundation alongside the rails of the car tracks.

* Old granite blocks laid on sand foundation. The cost of blocks is not included.

STREET MAINTENANCE.

Fiscal year 1906.

MACADAM RESURFACING.

Streets.	Limits.	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Total cost.
Mill street,	Main to Locust street,	527	2,492	$0.19	$465.95
Main street,	Pecousic avenue to brick paving,	2,066	8,083	.39	3,182.90
Spring street,	State to Lyman street,	2,373	7,741	.32	2,514.81
Water street,	Railroad to State street,	2,560	8,744	.36	3,186.15
		7,526	27,060		$9,249.81

STREET MAINTENANCE.

GENERAL REPAIRS.

Street.	Gravel.	Macadam.	Receiving Basins.	Miscellaneous.	Total cost.
Abbe ave.,			$131 78		$131 78
Acushnet ave.,		$14 14	7 61		21 75
Alden street,		39 60	22		39 82
Allen street,	$879 68	21 42		$64 04	965 14
Armory street,	114 58		4 20	11 07	129 85
Bancroft street,		6 79	14 32	81	21 92
Bay street,	6 87	81 93	32 92		121 72
Bay road,	12 53			38 41	50 94
Beechwood ave.	50 54				50 54
Belmont ave.,	74 56	145 93	4 00	38 22	262 71
Benton street,	40 96				40 96
Berkshirestreet, I. O.,	417 20			154 70	571 90
Bond street,		10 09	16 48		26 57
Boston road,	433 47	105 25	7 35	57 73	603 80
Bowdoin street,	3 05	12 33	13 25		28 63
Bowles street,	24 13				24 13
Bridge street,		139 96		17 17	157 13
Broad street,			30 05		30 05
Buckinghamst.,	43 86		9 60		53 46
Carew street,	29 86	41 84			71 70
Cass street,		66 93		81	67 74
Central street,		308 36	10 52	8 83	327 71
Chapin street,	20 53		5 72		26 25
Chase ave.,	22 96				22 96
Cherry street,	21 60				21 60
Chestnut street,		38 76	5 23	7 14	51 13
Chestnut street, I. O.	87 93			5 32	93 25
Church street,		9 51	23 12		32 63
Clarendon st.,	22 42	1 68			24 10
Clinton st.,		22 05	6 60		28 65
Congress st.,		27 55			27 55
Dickinson st.,	138 99		6 29		145 28
Dwight street,			15 81	80 88	96 69
East Court st.,		21 66			21 66

STREET MAINTENANCE.

GENERAL REPAIRS.—CONTINUED.

Street.	Gravel.	Macadam.	Receiving Basins.	Miscellaneous.	Total cost.
Eastern ave.,		$52 29			$52 29
Elliott street,		25 32	$13 79		39 11
Elm street,		1 12	12 68	$13 25	27 05
Ferry street,		37 72			37 72
Fiberloid street, I. O.,				21 37	21 37
Firglade ave.,	$49 70				49 70
Florentine Gardens,	22 51				22 51
ForestPark ave.,	85 20	1 68	41 73		128 61
Fort Pleasant avenue,	246 05	304 39	37 54		587 98
Fremont street,		1 68	29 05		30 73
Fulton street,		20 12	14 63		34 75
Girard ave.,	37 42				37 42
Green street,	31 89		3 87		35 76
Hampden st., I. O.,	146 36			15 80	162 16
Hancock street,	96 60	69 63	12 00		178 23
Harrison ave.,		20 43			20 43
Hickory street,	16 17	9 19		74 75	100 11
High street,		14 11	58 75		72 86
Howard street,		5 61	21 06		26 67
Jackson street,	63 14				63 14
James street,	14 40		8 79		23 19
King street,		71 79			71 79
Liberty street,	270 21	82 21		19 86	372 28
Locust street,		140 22	19 50		159 72
Lyman street,		15 37	11 52	11 78	38 67
Main street,		35 31	47 05	383 87	466 23
Main st., I. O.,	121 45	228 77	95	49 09	400 26
Manhattan st.,	28 84				28 84
Maple street,		105 92	10 18		116 10
Maplewood ter.,	50 59			10 43	61 02
Margaret street,		1 68	23 99		25 67
Marion street,	23 30				23 30

STREET MAINTENANCE.

GENERAL REPAIRS.—CONTINUED.

Street.	Gravel.	Macadam.	Receiving Basins.	Miscellaneous.	Total cost.
Market street,		$101 64	$16 48	$69 28	$187 40
Massasoit st.,	$17 59		6 38		23 97
Mattoon street,		23 72			23 72
Mill street,		124 49	8 72	66	133 87
Monroe street,	21 13				21 13
Morgan street,		10 98	22 62		33 60
Mulberry street,	10 71	15 12	4 61		30 44
Myrtle st., I.O.,	26 57			35 92	62 49
North Main st.,		254 94		6 13	261 07
Oak street,		26 66	44 11	56	71 33
Oak st., I. O.,	453 84	153 27		13 78	620 89
Oakland street,		11 52		52 01	63 53
Orange street,	27 34				27 34
Palmer ave.,		5 86		14 35	20 21
Park street,		23 78	33 01		56 79
Parker st., I. O.,	1,150 81			149 90	1,300 71
Pasco st., I. O.,	21 03			53 66	74 69
Pearl street,		29 34	35 13		64 47
Pine street,		21 97			21 97
Plainfield st.,		111 40	2 06	1 81	115 27
Plumtree road,	25 03			28 48	53 51
Prospect street,	68 41				68 41
Pynchon street,		6 34	10 74	11 12	28 20
Queen street,	27 76				27 76
Quincy street,	24 87	4 48			29 35
Revere street,	49 34				49 34
Ridgewood pl.,			37 77		37 77
Riverview ter.,	41 97				41 97
St. James ave.,	60 18	32 84		5 93	98 95
Salem street,		15 77	11 18		26 95
School street,		12 29	14 98		27 27
Seventh street,		2 17	22 57		24 74
Sharon street,		20 41		1 37	21 78
Sixteen Acre road,	187 38			18 67	206 05
South street,	86 77	9 97	4 25		100 99

STREET MAINTENANCE.

GENERAL REPAIRS.—CONTINUED.

Street.	Gravel.	Macadam.	Receiving Basins.	Miscellaneous.	Total cost.
Spring street,		$26 93		$42 24	$69 17
Springfield st.,	$209 52				209 52
State street,		433 81	$38 73	232 17	704 71
Stebbins street,	22 80				22 80
Stockbridge st.,		20 42			20 42
Stony Hill road,	20 59			10 97	31 56
Summer street,		32 55	5 38	163 31	201 24
Sumner ave.,	243 54	65 84	7 14	12 49	329 01
*Sundry streets,	497 50	705 72	538 37	212 25	1,953 84
Taylor street,	24 88				24 88
Temple street,		5 95	11 65	152 00	169 60
Tinkham road,	49 39			14 13	63 52
Tyler street,	18 34	4 48			22 82
Union street,		75 79	57 00	10 05	142 84
Vernon street,		9 82		22 13	31 95
Walnut street,		140 34	5 15	1 90	147 39
Warwick ave.,	27 02				27 02
Water street,		269 72	129 07	77 13	475 92
Webster street,		67 30			67 30
Westford ave.,	21 51				21 51
White street,	155 27	10 03	141 47		306 77
Wilbraham avenue,	25 59				25 59
Wilbraham rd.,	934 98	71 15	49 14	1,178 54	2,233 81
Wilcox street,		5 95	26 56		32 51
William street,	19 18		19 84		39 02
Willow street,		105 52	43 92		149 44
Woodside ter.,	6 70		24 01		30 71
Worcester st., I. O.,	195 24	7 62		43 04	245 90
Worthington st.		222 25	9 40	111 88	343 53
	$8,522.33	$5,660.49	$2,093.59	$3,833.19	$20,109 60

* Individual street repairs costing less than $20.00.

SIDEWALKS AND CURBING.

Fiscal year 1906.

CONSTRUCTION AND RECONSTRUCTION.

By orders of the City Council.

Street.	Length in feet.	SIDEWALKS.		CURBING. Length in feet.		Order approved.
		Material.	Description.	4″	6″	
Avon place, southerly,	100	Brick,	Relaid,			June 6, 1906.
Calhoun street,	310	Brick,	Relaid,			May 8, 1906.
Calhoun street,	345	Tar concrete,	New,			May 8, 1906.
Cambridge street,	208	Tar concrete,	New,			June 6, 1906.
Cambridge street,	1,468	Tar concrete,	Skim coated,			June 6, 1906.
Chestnut street, easterly side,				331		June 26, 1906.
Chestnut street, westerly side,	278	Brick,	New,			Aug. 8, 1898.
Franklin street, northerly side,					49	Nov. 2, 1904.
Frost street,				27		May 17, 1898.
Hickory street, southerly side,	431	Tar concrete,	New,	441		May 14, 1906.
Knox street,	100	Brick,	Relaid,			May 14, 1906.
Knox street,	150	Tar concrete,	New,			May 14, 1906.
Lenox street,				456		May 16, 1905.
Main street, I. O.,	207	Tar concrete,	Skim coated,			Sept. 12, 1905.
Main street, I. O.,	2,132	Tar concrete,	New,			Sept. 12, 1905.
Melrose street,	338	Tar concrete,	Skim coated,			June 6, 1906.
Melrose street,	1,465	Tar concrete,	New,	1,163		June 6, 1906.

SIDEWALKS AND CURBING—CONTINUED.

Street.	Length in feet.	SIDEWALKS.		CURBING. Length in feet.		Order approved.
		Material.	Description.	4″	6″	
Mulberry street,	1,026	Brick,	Relaid,			Oct. 24, 1905.
North street, easterly side,	283	Brick,	New,			Aug. 8, 1898.
Oak street,	1,371	Brick,	Relaid,			Sept. 27, 1904.
Orange street,	2,021	Tar concrete,	New,	1,239		Nov. 15, 1904.
Parkwood street,	55	Tar concrete,	Skim coated,			June 1, 1904.
Revere street,	217	Tar concrete,	New,			Nov. 15, 1904.
Ridgewood place,				1,148		Sept. 10, 1906.
State street, southerly side,	550	Cinder,	New,			Dec. 16, 1902.
Thomas street,	100	Brick,	New,	743		June 12, 1906.
White street, easterly side, Orange street to Dawson ave.,				573		Mar. 30, 1903.
White street, westerly side, Orange street to schoolhouse,	725	Tar concrete,	New,	972		May 14, 1906.
Wilbraham avenue,	1,424	Tar concrete,	Skim coated,			Nov. 28, 1905.
Wilbraham road, southerly side,	581	Tar concrete,	Skim coated,			June 6, 1906.
Woodside terrace,				471		Sept. 11, 1905.
				7,564	49	

SIDEWALKS AND CURBING.

CONSTRUCTION BY ORDERS OF ABUTTERS.

Street.	Length in feet	SIDEWALKS. Material.	SIDEWALKS. Description.	CURBING. Length in feet. 4″	CURBING. Length in feet. 6″
Banks place,				75	
Beacon street,				87	
Dickinson street,				50	
Franklin street,	110	Brick,	New,		
Hampshire street, I. O.,				135	
***Hampden street, I. O.,**				277	
***Holly street, I. O.,**				612	
Horace street,				325	
Main street,					152
Miscellaneous streets,				222	16
Palmer avenue,					51
Prospect street,				470	133
Thompson street,					45
Wilbraham road,				79	
***Worcester street, I. O.,**				225	
				2,557	397

* Curbing furnished by owner of abutting property.

STREETS MADE PUBLIC.

Name.	Limits.	Length in feet.
Abbe avenue,	Plainfield street westerly,	925
Alderman street,	Dickinson to Pomona street,	1,330
Berkshire street, I. O.,	Oak street easterly,	325
Birnie avenue,	Arch to Thomas street,	1,965
Courtland street,	State street northerly,	650
Dukes street, I. O.,	Berkshire to Holly street,	400
Fiberloid street, I. O.,	Berkshire to Worcester street,	2,300
Grenada terrace,	Dickinson to Pomona street,	1,097
Hampden street, I. O.,	Chestnut to Holly street,	600
Holly street, I. O.,	Berkshire to Worcester street,	1,045
Marion street,	Bowles to McKnight street,	520
Medford street,	North Main street to Birnie avenue,	624
Melrose street,	Eastern avenue westerly,	580
Ormond street,	Sumner to Belmont avenue,	360
Pease street,	Bowles to Marion street,	148
Pomona street,	Sumner avenue to Alderman street,	900
Scott street,	Pomona to White street,	640
		14,409

STREETS RELOCATED.

Name.	Limits.	Length in feet.
Boston road,	Near Old Bay road,	1,962
Bridge street,	Main to Chestnut street,	1,065
Main street,	Mill street northerly,	200
Mill street,	Main street easterly,	245
Oak street,	State to Walnut street,	1,350
Old Wilbraham road,	Pomona to White street,	1,230
Union street,	Widening, Union street easterly,	163
Wilbraham road,	At Sixteen-Acre mill pond,	200
		6,415

INVENTORY.

STREET AND SEWER DEPARTMENTS.

Automobile,	$500 00
City yard, Summer street,	23,000 00
City yard, Summer street,—buildings,	3,500 00
City yard, Logan street,	7,000 00
Trap rock quarry, Westfield,	225 00
Engine, engine house, trap rock crusher and tools,	1,500 00
Gravel bank, Five Mile pond,	100 00
Gravel bank, Island pond,	380 00
Gravel bank, Boston road,	80 00
Six steam rollers,	10,400 00
Steam roller house,	1,200 00
Fourteen horses, wagons, sleighs, harness, etc.,	4,448 75
Thirty-four street watering carts,	4,815 00
Office furniture,	317 00
Tools and road materials,	16,344 11
	$73,809 86

GENERAL DESCRIPTIONS.

PAVING.

The street work of the most importance would properly include the wood block paving, which was laid in Main street in place of the granite paving between Bliss and William streets, and the bitulithic paving in Hillman, Market, North Main, and Walnut streets.

The wood blocks were purchased from the United States Wood Preserving Company of New York, and were made from black gum wood treated by the creo-resinate process. The recent advance in price for hard pine, from which the blocks heretofore used in this city have been made, demanded the use of less expensive wood, and it is expected that black gum wood will prove satisfactory for paving purposes.

This wood is guaranteed against decay and other defects, which would render it unsuitable for the purpose intended, for a period of ten years. The blocks have been laid on a concrete foundation and mortar bed, by departmental labor, to insure proper quality of workmanship and materials.

The Portland cement concrete foundation, 4½″ to 5″ in depth, is laid in accordance with methods patented by the Hassam Paving Company of Worcester, Mass., arrangements therefor having been made with that company. Briefly described, the method provides for spreading coarse trap rock upon the prepared subgrade, after which it is rolled with a steam roller until the stone has been thoroughly compacted.

Portland cement grout, mixed in the proportion of one part of cement to three parts of fine sand, is then poured upon the stone until all interstices are filled. The surface is then rolled, and where necessary additional grout is added.

Upon the concrete surface thus prepared is spread Portland cement mortar, mixed in the proportion of one part of cement to four parts of sand, on which mortar the blocks are laid.

The blocks are grouted with Portland cement, mixed in the proportion of one part of cement to two parts of sand.

The bitulithic paving, aggregating a total of 11,731 square yards, was also laid by departmental labor under arrangements with Warren Brothers Company of Boston similar to those made last year, by which the mixing plant, bituminous materials, skilled men, etc., were furnished to the city.

MACADAMIZING.

The length of streets macadamized during the year amounts to 21,054 feet, which has been distributed over twenty streets. In accordance with the custom prevailing for a number of years, all but two streets have been macadamized to their full widths. Worcester street, Indian Orchard, and Forest Park avenue were macadamized to widths of eighteen and twenty-two and one-half feet respectively, as it was decided that the present requirements did not warrant doing the work to the full widths between the curbs.

SPRINGFIELD STREET RAILWAY COMPANY.

By order of the City Council, approved June 12, 1906, bills amounting to $15,860.23, rendered against the Springfield Street Railway Company during the years 1898-1902 inclusive, on account of the removal of snow from streets containing car tracks, were abated. The City Solicitor advised that these claims were rendered invalid by Chapter 14, Section 44, of the Revised Laws, which imposes an excise tax upon the railway company payable to the city, and which is designed to reimburse the city for such expenses.

An agreement between the city and the Springfield Street Railway Company, dated November 17, 1906, has been renewed for the coming winter, by which the railway company is to remove from certain streets the equivalent of the amount of snow plowed from its tracks within the limits of the city.

The Springfield Street Railway Company has substituted Trilby section full grooved rails for the T rails in Walnut street between Cedar and Hancock streets, and in North Main street as far north as Morgan street, where bitulithic paving has been laid.

The laying of the Burcham Bend track, commenced in 1905, has been finished, and in connection therewith the bank of the Chicopee river at the bend has been riprapped.

Large areas of wood pavement in Main street, between State and Sharon streets, have been taken up and relaid during the summer and fall by and at the expense of the Springfield Street Railway Company, on account of worn and defective rails. These rails, of Trilby section, were laid in 1901, and it is a matter of regret as well as surprise that they should prove of such short life. It is certain that the pavement suffers considerably on this account, although pavements so constructed can be repaired more satisfactorily than can many other varieties.

PLAINFIELD STREET BRIDGE.

The Plainfield street bridge over the Boston and Maine railroad, erected in 1890, was found upon examination by Mace Moulton, Consulting Engineer, of New York, to need strengthening. A report embodying his suggestions was submitted to the Supervisors of Highways and Bridges on April 28, 1905.

Inasmuch as the bridge requires strengthening in order to accommodate the heavy cars of the Springfield Street Railway Company, arrangements have been made whereby that company is to do the work and pay all the necessary costs. It is expected that the work will be started in the coming spring.

CITY YARDS.

The Lyman street yard, purchased about fifty years ago, was sold at auction on June 9, 1906, to C. E. Brown & Company of this city for $27,250, it having been apparent for some time that larger quarters were necessary to properly supply the needs of the Street and Sewer Departments. This sum, together with $14,250 appropriated by special order of the City Council, October 2, 1906, provided for the purchase of land for a new city yard and also for the building of a barn and wagon house.

The lot lying between land of the Boston and Albany Railroad Company and Summer street was purchased for yard purposes from the heirs of A. S. Dwelly for $23,000. This lot, which has a frontage of 353 feet, an average depth of 225 feet, and containing about 82,250 square feet, is expected to prove adequate for a number of years.

Kirkham & Parlett, architects, of this city, have prepared plans for the barn and wagon house, and the general contract for their construction has been awarded to W. H. Falvey & Son of this city for $16,500.

The barn will provide for twenty horses and the wagon house will contain office, tool rooms, etc.

CARLISLE BROOK CULVERT.

The brownstone box culvert at Carlisle brook, under the Wilbraham road, was found to be defective, and has been replaced by a cement concrete culvert four feet and three inches in diameter at a cost of $1,034.74. This has been so designed and placed that it may become a part of the future storm water system in that vicinity, draining into the Watershops pond.

CHANGES IN STREET NAMES.

The names of the streets lying on the easterly and westerly sides of Stearns Park have been changed from Stearns Park streets to Stearns Square.

South street, between Mill river and Pecousic avenue, has been renamed Main street, it being the southerly continuation of that thoroughfare.

CONSTRUCTION OF NEW STREETS.

Birnie avenue has been laid out and established as a public way between Arch and Thomas streets, by order of the City Council, approved May 14, 1906, making this thoroughfare continuous between Arch street and Wason avenue. In connection therewith the Springfield Street Railway Company was paid $3,097.50 for land damages and the removal of a part of its car house. Brick paving has been laid northerly of Hooker street where the railway tracks cross Birnie avenue, as described elsewhere in this report.

By order of the City Council, approved November 1, 1906, Scott street has been laid out and established as a public way from White street to the junction of Alderman and Pomona streets, which were made public by orders of the City Council, dated November 1 and November 27, 1906, respectively.

One of the principal reasons for opening these streets was to furnish convenient access to the new White Street School for the children of the neighborhood.

The grading and graveling of Scott and Pomona streets and a part of Alderman street has been finished and tar walks have been built on the southerly side of Scott street and on the easterly side of Pomona street. Temporary board walks have been built in Alderman street.

Union street easterly of Oak street has been widened sixteen and one half feet on the northerly side, making a total width of forty-nine and one half feet, in accordance with an order of the City Council approved July 2, 1906. This section of the roadway has been macadamized.

BUILDING LINES.

The recent agitation for the establishment of building lines on various streets, the need for which is very apparent, leads me to suggest that the best time for such establishment is when the streets are made public.

At such times there ordinarily would be no necessity for moving existing structures, and the advantage accruing to the owners of the property by having the streets made public should offset in large measure, if not entirely, any losses due to the building restrictions which are imposed upon the lands.

TARVIA.

The application of the product of coal tar distillation, known as Tarvia, to macadamized roads for the purpose of laying the dust, is to be tried during the coming year. This method has recently been used in a number of cities, and is said to have been very satisfactory.

Material sufficient to treat about 8,000 square yards of macadam surface is now stored in the Summer street yard.

SIDEWALKS AND CURBING.

Sidewalk work has been done in twenty-four streets, in accordance with orders of the City Council.

The setting of curbing in Chestnut, Franklin, and Norfolk streets was started during the year, but was suspended pending final action by the City Council on petitions relating to changes in the locations thereof.

WATERING STREETS.

In accordance with orders of the City Council, 83.68 miles of streets have been watered, an increase of .51 miles over that watered last year.

The same methods which have heretofore prevailed, namely, the use of watering carts and cars, have been followed. The carts are owned by the city. The teams and drivers are employed under contract, at the rate of $90 per month. This amount is $5 per month in excess of the rate paid last year, and was allowed on account of increased cost of teams, hay, grain, etc.

Two, and during a part of the season three cars of the American Car Sprinkler Company of Worcester, Mass., have been operated under contract.

A five year contract was made with the American Car Sprinkler Company on April 1, 1906, by which a discount of 5 per cent per annum is made from the price paid by the city last year for similar service. The approximate saving to the city by this arrangement amounts to $500 annually.

PAY OF FOREMEN.

By vote of the Board of Supervisors, October 30, 1905, the foremen in the employ of the Street Department have been guaranteed eight months' work during the summer season, at their daily rates of wages, and during the winter season they are each guaranteed one dollar per day, provided they report at the city yard. For any work done during the winter season they are paid at their usual daily rates of wages.

CHANGES IN PAY FOR LABORERS AND DOUBLE TEAMS.

By order of the City Council, approved December 11, 1906, which order takes effect upon the date of passage, the laborers in the employ of the Street and Sewer Departments are to be paid $2 per day of eight hours, instead of $1.75 as heretofore. The pay for double teams has been raised from $4.50 to $5 per day.

CONCLUSION.

It gives me pleasure to express thanks to Arthur H. Woodward, Assistant Superintendent of Streets.

I also very much appreciate the uniform courtesies extended during the year by Mayor Francke W. Dickinson, Alderman William E. Sanderson, and Councilman George D. Chamberlain, members of the Board of Supervisors of Highways and Bridges.

Respectfully submitted,

ARTHUR A. ADAMS,

Superintendent of Streets.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

MACADAM BUILT BY PRIVATE PARTIES.

NAME OF STREET.	Limits.	Length in feet.	Area in sq. yds.
Medford street,	North Main st. to Birnie ave.,	624	2,080

MACADAM REPLACED BY PAVING.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Fulton street,	Cypress street to Vine,	1,125	3,006
Hillman street,	Main street to Dwight,	647	1,801
Market street,	State street to Harrison ave.,	961	1,792
North Main street,	Carew street to Morgan,	830	4,500
Walnut street,	Lebanon street to Hancock,	490	780
		4,053	11,879

GRANITE BLOCKS REPLACED BY WOOD BLOCKS.

NAME OF STREET.	Limits.	Length in feet.	Area in sq. yds.
Main street,	Bliss street to William,	1,148	5,475

TABLE OF MACADAMIZED STREETS.

*** Includes Macadam laid by Spfd. Street Ry. Co.**
**** Macadam laid by Spfd. Street Ry. Co.**
† Macadam laid by private parties.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Acushnet avenue,		1,088	3,385
Adams street,		1,003	3,326
†Agawam street,	Pecousic avenue to South st.,	230	383
Alden street,		2,776	*9,306
Alexander street,		414	1,380
Allen street,	Mill to Randall avenue,	2,253	*7,935
Allendale street,		663	2,094
Amherst street,	Harvard to Monmouth,	1,233	4,069
Andrew street,	State to Dawes,	1,323	4,228
Arbor street,		437	1,222
Armory street,	Federal to Warwick avenue,	2,305	7,688
Armory street,	Liberty to Cleveland,	1,119	3,698
Ashley street,		1,378	4,592
Auburn street,		787	1,942
Autumn street,		197	504
Avon place,		644	2,538
†Avon place,		67	386
Bancroft street,		1,435	4,865
Barnes street,		180	561
Bay street,	St. James avenue to Cambridge street,	4,469	*14,853
Beech street,		528	1,303
Belmont avenue,	Woodside ave. to Oakland st.,	2,599	7,043
Belmont avenue,	Sumner avenue to White st.,		**3,700
Belmont avenue,	south side Garfield street to Sumner avenue,	1,624	4,170
Berkshire street,	State to Oak, I. O.,		**31,291
Bliss street,	Main to N. Y., N. H. & H. R. R.,	1,229	3,956
Bond street,		1,629	5,112
Bowdoin street,	St. James avenue to Worthington street,	1,152	3,837
Boylston street,		1,807	864

TABLE OF MACADAMIZED STREETS.—CONTINUED.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Bradford street,		862	2,935
Bridge street,	old toll bridge to Main, and Dwight to Chestnut,	817	3,009
Broad street,		959	3,177
Brookline avenue,		615	2,050
Butler street,		1,525	2,885
Byers street,	State to Frost,	480	1,193
Carew street,	Main to point near Bartlett,	2,618	7,672
Calhoun street,		1,129	3,435
Cass street,	Liberty to Butler,	1,762	5,407
Catharine street,	Bay to Dartmouth,	150	493
Cedar street,		1,962	6,655
Central street,		4,903	12,832
Central street,	Cedar to Mill,		**2,705
Charles street,	Liberty to Franklin,	618	1,888
Chestnut street,	State to Worthington, and east side, Jefferson ave. to City Hospital,	3,064	7,501
Chestnut street,	Allendale to Springfield,		**2,908
Church street,		832	2,553
Churchill street,		575	1,919
City Hall passageways,		557	1,020
Clark street,		619	1,100
Clarendon street,	north from Worthington,	204	674
Clinton street,		703	1,842
College street,		527	1,522
Congress street,		1,550	3,918
Court street,	Water to Court square ave.,	689	2,052
Cross street,	Willow to Maple,	608	1,416
Dale street,		812	2,051
Dartmouth street,		1,132	5,159
Demond avenue,		859	2,863
Dorchester street,		567	1,887
Douglas street,		540	1,800
Eagle street,		556	1,855
East Court street,	Market to Dwight,	369	855

TABLE OF MACADAMIZED STREETS.—CONTINUED.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
East Hooker street,		679	1,786
Eastern avenue,		4,516	*15,297
Edwards street,		675	2,219
Elliott street,		1,007	3,342
Elm street,	N. Y., N. H. & H. R. R. to Court Square,	818	2,089
Elmwood street,		886	2,738
Emery street,		648	2,106
Essex street,		1,606	5,143
Everett street,		1,500	4,859
Federal street,	Pearl to Worthington,	353	1,370
Ferry street,	Main to foot of hill,	1,357	3,441
Fisk avenue,	Talcott to Wason,	1,126	5,005
Florence street,	Walnut to Pine,	1,582	5,273
Florida street,	Bay to Worthington,	1,407	4,666
Forest street,		784	2,502
Forest Park avenue,	Sumner ave. to Forest street,	752	3,846
Forest Park avenue,	Fort Pleasant ave. to Forest street, 22½ feet in width,	1,760	4,475
Fort Pleasant avenue,	west side,	2,794	10,138
Franklin street,	Main to Charles, and Cass to Webster,	2,531	8,781
Fremont street,		778	2,593
Fulton street,	Plainfield to Vine,	2,444	8,087
Gardner street,	Water to Main,	1,114	3,718
Garfield street,		1,577	5,220
George street,	Maple easterly,	110	647
Grace street,		354	885
Grant street,		577	1,603
Gray's avenue,		560	1,300
Greenwich street,	North Main to Becket,	643	2,143
Greenwood street,		1,561	5,025
Grove street,		612	1,734
Grosvenor street,		738	2,286
Hancock street,	Florence to State,	3,429	*11,613
Harvard street,	Yale to Cornell,	1,565	5,206

TABLE OF MACADAMIZED STREETS.—Continued.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Hawthorn street,		540	1,374
Hebron street,		698	2,204
Hickory street,	Walnut to Sheffield st., and Alden street easterly,	3,341	8,547
High street,		2,563	5,544
Holyoke street,		776	2,001
Homer street,		582	1,940
Howard street,	N. Y., N. H. & H. R. R. to Main street,	1,277	4,326
Hubbard avenue,		568	1,063
Huntington street,		643	†2,143
Ingraham avenue,		258	462
James street,		928	2,356
Jefferson avenue,		1,275	6,375
John street,		640	2,136
Kibbe avenue,		213	710
King street,	Walnut to Highland division N. Y., N. H. & H. R. R.,	2,885	*9,507
Lafayette street,		568	1,865
Lebanon street,		1,926	5,233
Lexington avenue,		622	1,659
Leyfred terrace,		625	2,102
Liberty street,	Main street easterly, and Walcott to Carew,	3,808	9,620
Liberty street,	Heywood avenue to Chicopee line,		**9,920
Lillian street,		387	989
Linden street,		1,287	5,148
Locust street,		793	2,501
Lombard street,		590	1,677
Loring street,		707	2,294
Lyman street,	Chestnut to Spring,	734	2,544
Madison avenue,		529	1,657
Magazine street,	Lincoln to Armory,	734	2,434
Main street,	Mill river to Locust street,	980	5,864

TABLE OF MACADAMIZED STREETS.—CONTINUED.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Main street, I. O.,	Front street to point 104 ft. east of Rogers ave.,	4,403	15,953
Main street, I. O.,	Front st. to Ludlow bridge,		**11,127
Maple street,	top of hill to George street,	1,565	4,572
Maplewood terrace,	south side, Fort Pleasant Ave. to Forest Park avenue,	1,301	3,075
Marble street,		1,074	3,508
Margaret street,	Water to Main,	842	2,807
Massasoit street,	Carew to Prospect,	851	2,803
Mattoon street,		524	1,775
Medford street,	N. Main st. to Birnie ave.,	624	2,080
Merwin street,		713	2,377
Mill street,	Main to Dickinson,	3,250	13,564
Morgan street,		852	2,914
Morris street,		1,022	3,031
Mountainview street,		682	2,330
Mulberry street,	Maple to Ridgewood place,	991	3,256
Myrtle street,		484	997
North street,	Carew to Waverly,	2,988	10,807
North Main street,	Morgan to Chicopee line,	6,285	32,680
Norwood street,		1,117	2,911
Oak street,		1,344	4,136
Oak street, I. O.,	Berkshire to Main,	1,097	4,051
Oak street, I. O.,	Berkshire to Main,		**2,078
Oakland street,	Belmont ave. to Allen street,	3,422	11,454
Olive street,		478	1,248
Orleans street,		1,509	4,293
Osgood street,		890	2,948
Palmer avenue,		991	3,177
Park street,	Main to Willow, and foot of hill to Maple,	865	2,545
Patton street,		1,631	5,438
Pearl street,	Chestnut to Byers,	1,220	3,513
Pecousic avenue,	South street to South street,	2,205	7,350
Pendleton avenue,		2,582	6,545
Pine street,		4,420	14,344

TABLE OF MACADAMIZED STREETS.—CONTINUED.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Plainfield street,	B. & M. R. R. to Newland street, and Rowland ave. to Wason avenue,	3,079	8,646
Plainfield street,	Washburn to Wason avenue,		**3,953
Pleasant street,		428	1,026
Plymouth street,		479	1,597
Portland street,	N. Main to Birnie avenue,	610	2,033
Princeton street,	Bay to St. James avenue,	1,509	6,329
Princeton street,	Bay to St. James avenue,		**1,496
Prospect street,	Massasoit to Carew st. (incomplete),	817	2,996
Pynchon street,		868	2,810
Quincy street,	Oak to Eastern avenue,	2,704	7,780
Ringgold street,		730	2,432
Rutland avenue,		277	926
Rutledge avenue,		516	1,599
Salem street,	Mattoon to Spring,	522	1,426
Sanford street,	Market to Dwight,	367	1,278
Sargeant street,		860	3,126
School street,		1,415	4,597
Seventh street,		822	2,529
Sharon street,		1,200	3,895
Sheldon street,	Birnie avenue to N. Main,	651	2,027
Sherman street,	State to Bay,	1,528	5,078
South street,	Agawam street to Mill river,	1,863	6,878
Spring street,		2,373	7,322
Springfield street,	Chestnut to dingle, and Hamburg street to Chicopee line,		**1,242
Spruce street,		699	1,737
State street,	Water to Main, City Library to Federal, Oak to Sherman, and Highland Div. N. Y., N. H. & H. R. R. to Berkshire street,	18,966	*67,971
Stearns square,	east of park,	259	461

TABLE OF MACADAMIZED STREETS.—CONTINUED.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Stebbins street,	Union to Quincy,	186	621
St. James avenue,	State to Highland division N. Y., N. H. & H. R. R.,	5,470	15,557
St. James avenue,	State to end of track,		**5,213
Stockbridge street,		635	1,617
Summer street,	east of Spring,	567	1,512
Summer street,	Federal to Armory,	378	1,260
Sumner avenue,	Longhill street to Forest Park entrance,	3,215	15,227
Sumner avenue,	Lenox st. to east line Dickinson street,	484	4,254
Sumner avenue,	Longhill street to White,		*11,631
Taylor street,		413	1,310
Temple street,		953	2,570
Tenth street,		1,577	4,451
Thompson street,		2,093	6,606
Townsley avenue,		138	214
Tyler street,	Oak to Hancock,	1,346	4,002
Union street,	Water to foot of hill, Maple to School, and Mulberry to Eastern avenue,	6,088	20,247
Vernon street,		823	1,952
Vine street,		745	1,892
Vinton street,		612	2,465
Walnut street,	Mill to Hancock street,	1,457	*2,341
Waltham avenue,		985	2,628
Warriner avenue,		450	1,601
Warwick street,	Heywood street easterly,	811	2,703
Wason avenue,	B. & M. R. R. to North Main street,	505	1,718
Wason avenue,	B. & M. R. R. to North Main street,		**449
Water street,		5,145	16,525
Waverly street,		850	2,910
Webster street,		606	2,020
West street,		1,195	3,872

TABLE OF MACADAMIZED STREETS.—CONTINUED.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Westminster street,		1,911	6,888
White street,	Allen to Orange,	1,800	3,505
White street,	Orange to Sumner avenue, and Belmont avenue to Longmeadow line,		**3,774
Wight place,		388	692
Wilbraham road,	State to Homer street,	2,579	11,427
Wilbraham road,	southerly side, Homer to Benton street,	2,600	5,142
Wilbraham road,	Westford avenue to point 660 ft. east of Benton street,		**3,682
Wilcox street,	Main to 385 ft. westerly from Water street,	1,307	4,000
William street,	N. Y., N. H. & H. R. R. to Main,	1,368	4,359
Willow street,	Union to State,	895	2,493
Winthrop street,		659	2,397
Worcester street, I. O.,	Oak street to Fiberloid Co.'s driveway, 18 ft. in width,	4,494	8,988
Worthington street,	Water to Cook's ave., and Spring to St. James ave.,	3,830	5,375
Yale street,	Dartmouth to Monmouth,	1,493	5,142
York street,		1,000	2,997
Total,		299,867	1,047,394

TABLE OF PAVED STREETS.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Belmont avenue,	Hall street westerly,	Catskill blocks,	1,362	1,211	1901
Belmont avenue,	Hall to Oakland,	Metropolitan blocks,	1,023	914	1903
Birnie avenue,	Hooker street northerly,	Johnsonburg blocks,	145	483	1906
Bridge street,	Main to Dwight,	Rock asphalt,	688	2,525	1900
Bridge street,	Main street, 493 feet westerly,	Bitulithic,	493	1,746	1905
Catharine street,	State to Bay,	Syracuse brick,	1,722	5,691	1900
Charles street,	Liberty to land of B. & A. R. R.,	Granite blocks,	150	376	1903
Chestnut street,	Worthington to Lyman,	Granite blocks,	472	1,673	1895
Chestnut street,	Lyman to B. & A. R. R.,	Granite blocks,	256	1,471	1889
Chestnut street,	B. & A. R. R. to Linden st.,	Granite blocks,	1,640	5,235	1892
Chestnut street,	Linden to Carew,	Granite blocks,	773	2,156	1893
Chestnut street,	Carew to Allendale,	Syracuse brick,	1,015	3,432	1900
Chestnut street,	Allendale to Jefferson ave.,	Bitulithic,	825	2,898	1905
Court street,	Main to Court Square ave.,	Rock asphalt,	317	1,277	1897
		Syracuse brick,	—	174	1897
Court square avenue,	Court to Elm st.,	Rock asphalt,	193	503	1897
		Syracuse brick,	—	330	1897
Cypress street,	Main street westerly,	Granite blocks,	459	1,700	1904
Cypress street,	Boylston to Fulton,	Granite blocks,	216	848	1905
Dwight street,	State to Lyman,	Syracuse brick,	2,324	9,905	1896
East Court street,	Main to Market,	Rock asphalt,	117	297	1900

TABLE OF PAVED STREETS—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Elm street,	Main to Court Square ave.,	Rock asphalt,	343	949	1897
		Syracuse brick,	—	330	1897
Fort street,	Main to Water,	Granite blocks,	670	1,770	1895
Fulton street,	Cypress to Vine,	Granite blocks,	1,125	3,006	1906
Hampden street,	Main street westerly,	Bitulithic,	212	821	1904
Hampden street,	completion, Main to Water,	Bitulithic,	394	1,539	1905
Harrison avenue,	Main to Dwight,	Trinidad asphalt,	586	2,247	1896
Hillman street,	Main to Dwight,	Bitulithic,	648	2,025	1906
Liberty street,	Chestnut to Cass,	Syracuse brick,	1,399	4,571	1900
Liberty street,	Cass to Heywood ave.,	Syracuse brick,	1,147	3,971	1901
Lyman street,	Main to Chestnut,	Granite blocks,	1,305	4,599	1889
Main street,	Locust to Marble,	Syracuse brick,	840	4,381	1897
Main street,	Marble to William,	Syracuse brick,	1,762	8,307	1896
Main street,	William to Bliss,	Creo-resinate wood bl'ks, 3″ x 3½″ x 6″ to 10″,	1,150	6,460	1906
Main street,	Bliss to State,	Syracuse brick,	241	1,355	1898
Main street,	State to Worthington,	Creo-resinate wood bl'ks, 3″ x 3½″ x 8″,	1,899	10,798	1904
Main street,	Worthington to Hampden, west side,	Creo-resinate wood bl'ks, 3″ x 3½″ x 8″,	382	1,183	1904
Main street,	Worthington to Hampden, east side,	Creo-resinate wood bl'ks, 4″ x 4″ x 8″,	—	962	1903

TABLE OF PAVED STREETS—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Main street,	Hampden to Lyman,	Creo-resinate wood bl'ks, 4″ x 4″ x 8″,	153	775	1903
Main street,	Lyman to Liberty,	Creo-resinate grooved wood bl'ks, 4″ x 4″ x 8″,	484	2,780	1903
Main street,	Liberty to Sharon, east side,	Creo-resinate wood bl'ks, 4″ x 4″ x 8″,	453	1,135	1903
Main street,	Liberty to Cypress, west side,	Granite blocks,	—	880	1890
Main street,	Cypress to Sharon, west side,	Granite blocks,	—	580	1891
Main street,	Sharon to Emery and Franklin,	Granite blocks,	545	2,920	1891
Main street,	Franklin to Carew, east side,	Syracuse brick,	1,302	4,605	1897
Main street,	Emery to Sargeant, west side,	Catskill blocks,	1,447	5,449	1901
Main street,	crossing opposite Auburn street,	Catskill and Metropolitan blocks,	—	163	1903
Maple street,	Central to High,	Bitulithic,	1,563	5,665	1904
Maple street,	High to State,	Bitulithic,	593	2,530	1905
Market street,	State to Harrison ave.,	Bitulithic,	968	1,887	1906
North Main street,	Plainfield to Morgan,	Bitulithic,	730	4,485	1906
Plainfield street,	Sargeant to Fulton,	Syracuse brick,	1,710	10,249	1902
Railroad street,	Main to Water,	Granite blocks,	516	1,539	1906
Sanford street,	Main to Market,	Rock asphalt,	102	207	1900

TABLE OF PAVED STREETS—CONCLUDED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
State street,	Main to library,	Granite blocks,	1,019	4,034	1890
State street,	Dwight to Chestnut (widened),	Granite blocks,	—	217	1896
State street,	Federal to Oak,	Syracuse brick,	847	4,590	1897
State street,	Sherman to Highland Div. N. Y., N. H. & H. R. R.,	Bitulithic,	820	4,352	1905
Summer street,	Autumn to Kibbe ave.,	Granite blocks,	1,259	4,029	1895
Summer street,	Kibbe avenue to point 85′ west of Federal,	Granite blocks,	787	2,635	1901
Taylor street,	Main to Dwight,	Bitulithic,	770	2,580	1904
Walnut street,	State to Union,	Syracuse brick,	638	2,144	1899
Walnut street,	Union to Pendleton avenue,	Syracuse brick,	873	3,140	1900
Walnut street,	Pendleton ave., to Lebanon st.,	Bitulithic,	1,195	3,888	1905
Walnut street,	Lebanon to Hancock,	Bitulithic,	1,005	3,334	1906
White street,	Allen to Orange,	Syracuse brick,	1,610	2,400	1902
Worthington street,	Main to Dwight,	Syracuse brick,	789	2,544	1896
Worthington street,	Dwight to Fairbanks place,	Syracuse brick,	1,060	3,869	1901
Worthington street,	Fairbanks place to east line of Spring,	Syracuse brick,	269	1,003	1903
Worthington street,	Main to Cook's ave.,	Bitulithic,	404	1,418	1905
Total,			52,154	196,145	

THIRTY-EIGHTH ANNUAL REPORT

OF THE

SEWER DEPARTMENT.

SPRINGFIELD, MASS., December 28, 1906.

To the Mayor and Board of Aldermen:—

I have the honor of presenting statements of receipts and expenditures of the Sewer Department, and descriptions of work done during the fiscal year ending December 10, 1906.

RECEIPTS.

By appropriation, ...	**$28,000 00**	
Sewer entrances, fees, ...	**7,206 82**	
Sewer entrances, for labor and material, .	**3,394 37**	
From departments and private parties, bills rendered, ...	**985 85**	
		$39,587 04

EXPENDITURES.

REGULAR.

Building and connecting private drains, .	**$3,267 81**
City teams, uncredited balance, ...	**819 64**
City yard, ...	**1,167 60**
Engineering, ...	**312 84**
Materials on hand, ...	**133 12**
Office and general expenses, ...	**1,231 47**
Salary of first assistant superintendent, .	**1,071 16**
Amount carried forward,	**$8,003 64**

Amount brought forward,	$8,003 64	
Sewers, cleaning,	1,712 30	
Sewers, construction,	21,952 67	
Sewers, flushing,	2,159 04	
Sewers, repairs,	2,943 80	
Supplies,	199 60	
Tools,	1,006 27	
Work and material billed departments,	664 72	
Work and material billed private parties,	337 98	
	$38,980 02	
Unexpended balance,	607 02	
		$39,587 04

SPECIAL.

Mill River Valley Sewer :—

Limit of expenditure,		$97,572 65
Expended prior to December 10, 1905,	$95,418 43	
Expended since December 10, 1905,	2,154 22	
		$97,572 65

BILLS RECEIVABLE.

Bills receivable, December 10, 1905,	$419 10	
Bills committed, fiscal year, 1906,	705 71	
		$1,124 81
Bills paid, fiscal year, 1906,	$985 85	
Abatements,	59 01	
		1,044 86
Bill receivable, December 10, 1906,		$79 95

SEWER CONSTRUCTION CLASSIFIED.

Sizes vitrified clay pipe.	LENGTH IN FEET. New Construction.	Reconstruction.	Total Length.
10″	2,613′	507′	3,120′
12″	3,406′	1,306′	4,712′
15″	962′	581′	1,543′
18″	825′		825′
20″	553′		553′
24″	695′	395′	1,090′
Total,	9,054′	2,789′	11,843′

SEWER CONSTRUCTION AND RECONSTRUCTION.

DESCRIPTIONS AND COSTS—FISCAL YEAR 1906.

LOCATION.	Material.	Length in Feet.	Size.	Cost.
Abbe avenue, Plainfield street westerly	Clay	300 300 301 200	18″ 15″ 12″ 10″	$1,405 16
Alden street, manholes		....	....	116 59
Amherst street, manholes		....	....	72 09
Ashley street, manholes and flush gate		....	....	101 08
Avon place, Maple street easterly	Clay	695	24″	3,359 45
Belmont avenue, flush gate		....	....	29 29
Bliss street, manhole		....	....	39 97
Broad street, manholes		....	....	160 44
Center street, I. O., extension Pine to Cedar street	Clay	349 300	12″ 10″	644 61
Central street, manholes		....	....	87 04
Clarendon street, St. James avenue to Sherman street, relaying	Clay	280 605	15″ 12″	1,340 27
College avenue, flush gate		....	....	37 94
Davis court, Bridge street to Harrison avenue	Clay	450	12″	500 67
Emery street, manhole		....	....	36 78
Essex street, I. O., Oak street easterly	Clay	183	10″	224 87
Farnsworth street, Hamburg street northeasterly, incomplete	Clay	186	20″	608 11
Florence street, manholes		....	....	158 43

SEWER CONSTRUCTION AND RECONSTRUCTION.—CONTINUED.

LOCATION.	Material.	Length in Feet.	Size.	Cost.
Franklin street, extension to Genesee street	Clay	27	12″	$57 66
Fulton street, manholes		....	....	80 46
Genesee street, Franklin street south-easterly	Clay	200	10″	234 87
George street, flush gate		....	....	12 07
Granada terrace, Ventura street easterly	Clay	76	12″	52 72
Granville street, manhole		....	....	41 44
Gray's avenue, manhole		....	....	39 86
Green street, manholes		....	....	143 33
Hall street, manholes		....	....	86 64
Hamburg street, Springfield street easterly	Clay	367 235	20″ 10″	1,067 20
Hampden street, manhole		....	....	50 67
Hampden street, I. O., flush gate		....	....	36 59
Hawley street, manhole		....	....	28 52
Hickory street, flush gate		....	....	29 06
Homer street, flush gate		....	....	24 42
Ingersoll grove, manhole		....	....	35 80
John street, manhole		....	....	36 34
Keith street, manholes		....	....	88 22
*King street, Westford avenue to Wilbraham avenue	Clay	427	10″	321 81
King street, manhole		....	....	23 52
Lyons street, I. O., manhole		....	....	36 62

---

* Sanitary sewer.

SEWER CONSTRUCTION AND RECONSTRUCTION.—CONTINUED.

LOCATION.	Material.	Length in Feet.	Size.	Cost.
Magnolia terrace, flush gates		....	....	$42 16
Main street, Mill River to Mill street	Clay	258	10″	342 25
Malden street, flush gate		....	....	25 75
Manhattan street, manhole		....	....	35 91
Maple street, extension southerly to Maple avenue	Clay	784	12″	1,289 58
Marengo park, flush gate		....	....	95 25
Market street, Sanford street to Harrison avenue, relaying	Clay	301 350	15″ 12″	1,197 72
Massasoit street, manhole		....	....	32 18
Monroe street, manholes		....	....	142 77
Mountainview street, flush gate		....	....	28 19
Oak street, manhole		....	....	40 59
Palmer avenue, flush gate		....	....	24 99
Park street, Main to Willow street, relaying	Clay	395	24″	1,609 31
Pendleton avenue, manhole		....	....	60 78
Portsmouth street, Eastern avenue easterly	Clay	212	12″	218 06
Quebec street, I. O., Lyons street easterly	Clay	209	15″	402 82
Queen street, manhole		....	....	39 54
Quincy street, manholes		....	....	105 41
Reed street, manholes		....	....	81 71
Richelieu court, flush gate		....	....	21 92
Sachem street, Dickinson street northerly	Clay	330	10″	345 31

SEWER CONSTRUCTION AND RECONSTRUCTION.—CONTINUED.

LOCATION.	Material.	Length in feet.	Size.	Cost.
Stafford street, manhole		....	....	$29 32
Stebbins street, extension northerly	Clay	67	10″	37 29
St. James avenue, manhole		....	....	44 58
Temple street, extension easterly	Clay	154	15″	201 94
Vassar street, manholes		....	....	63 56
Walnut street, manholes,		....	....	144 29
Waltham avenue, extension southerly	Clay	365	12″	329 69
Wellesley street, manhole		....	....	30 08
*Westford avenue, Westford circle to King street	Clay	541	12″	454 36
White street, Gordon street to Dawson avenue	Clay	192	10″	187 69
White street, flush gate		....	....	21 89
Whittier avenue, Sumner avenue to Longfellow terrace	Clay	301 299 301 221	18″ 15″ 12″ 10″	1,261 63
William street, Main to Dale street, relaying	Clay	351 288	12″ 10″	906 35
William street, manhole and flush gate		....	....	63 14
Willow street, Union street to Hubbard avenue, relaying	Clay	219	10″	204 39
Worcester street, I. O., extension easterly of Pine street	Clay	224	18″	341 66
		11,848		$21,952 67

---

* Sanitary sewer.

NOTE.—The costs of the above described sewers include the costs of manholes and flush gates.

SEWERS ABANDONED—1906.

LOCATION.	Material.	Length in Feet.	Size.	Cost.
Clarendon street, St. James avenue to Sherman street	Cem.	885	12″	$1,336 35
Maple street, Maple avenue northerly	Cem.	328	12″	498 56
Market street, Sanford street to Harrison avenue	Cem.	549	15″	687 65
		154	12″	154 47
Park street, Main to Willow street	Cem.	353	18″	419 95
	Clay	42	18″	171 59
William street, Main to Dale street	Cem.	638	12″	599 72
Willow street, Union street to Hubbard avenue	Cem.	220	15″	302 23
		3,169		$4,170 52

SUMMARY.

DESCRIPTION.	Length in Feet.	Cost.
Clay pipe sewers built by regular appropriation	11,843	$19,145 45
Flush gates and manholes built by regular appropriation		2,807 22
	11,843	$21,952 67
Sewers abandoned	3,169	4,170 52
Net addition carried to sewer table	8,674	$17,782 15

SEWER CLEANING AND REPAIRS.

	COST OF	
	Cleaning.	Repairs.
Alden street,	$14 31	
Avon place,		$73 20
Belmont avenue,		32 00
Bowdoin street,	19 43	13 42
Broad street,		15 30
Buckingham street,	19 10	
Carew street,	43 55	
Cass street,		26 35
Cemetery brook,		13 00
Clarendon street,	13 25	
Clinton street, submerged outlet,	16 93	
Crystal avenue,	18 53	
Douglas street,		45 84
Elm street, submerged outlet,	18 02	
Fisk avenue,		20 52
Florence street,	35 01	
Forest Park avenue,		24 86
Forest street,		16 90
Fort Pleasant avenue,	20 67	
Fulton street,	22 65	
Garden Brook,	292 04	
Granville street,	16 16	
Green street,	28 22	
Grover street,	37 87	
Hampden street,	14 62	
Hawley street,	10 28	
Hillman street,		14 96
Ingersoll Grove,	19 28	
John street,	11 50	
Keith street,	12 37	
King street,	76 70	
Knox street,		11 36
Linden street,		14 83
Locust street,	17 34	
Lowell street,	85 50	

SEWER CLEANING AND REPAIRS.—CONTINUED.

	COST OF	
	Cleaning	Repairs.
Magnolia terrace,		$27 83
Main street,	$323 87	
Main street, I. O.,		1,020 40
Manhattan street,	19 00	
Marengo Park,		16 23
Mill street,	15 07	42 22
Monroe street,	40 37	
Mountainview street,	24 79	
Oak street,	29 76	
Oak street, I. O.,	28 88	
Pine street,		445 14
Plainfield street,		12 21
Plymouth street,	15 03	
Queen street,	19 60	
Quincy street,	12 98	
Sanford street,	15 75	
Sewer connections,		43 38
State street,		30 08
Sundry sewers, costing less than $10.00,	140 14	289 89
Town Brook, filling between Crossett avenue and Union street,		233 82
Tyler street,	29 12	
Union street,	58 74	
Walnut street,	11 76	11 20
Water street,		29 65
Wellesley street,	19 00	
West Brook, filling north of and rebuilding south of Summer street,		246 80
Willow street,	22 87	
Worthington street, submerged outlet,	22 24	
Worthington street,		172 41
	$1,712 30	$2,943 80

GENERAL DESCRIPTIONS.

The work of the Sewer Department has been done entirely by departmental labor. The total length of new sewer construction is 9,054 feet, and 2,789 feet of sewers have been relaid.

FILLING OF TOWN BROOK.

The Town brook, lying under and near the easterly sidewalk of Main street, has been filled between Crossett avenue and Union street, the condition of the brook structure having become defective. The brook was practically abandoned as a carrier of sewage and surface water a number of years ago. The cost of filling amounted to $233.82.

PINE STREET AND MAIN STREET, INDIAN ORCHARD, SEWER REPAIRS.

It was found upon examination that the bottoms of the Pine street sewer between Maple and Mill streets, and the Main street sewer, Indian Orchard, between Oak street and the Chicopee river, were defective, and these have been repaired by spreading a layer of Portland cement mortar on the inside bottoms of both sewers at a cost of $438.76 and $1,020.40 respectively.

Previous work of similar nature has satisfactorily withstood the wear of sewage flow, and it is expected that for a number of years, at least, there will be no necessity for extensive repairs to the sewers so treated.

WEST BROOK DISCONTINUANCE.

The West brook, so-called, has been diverted into the Summer street sewer, and has been discontinued northerly thereof, over land recently acquired by the city for yard purposes.

This part of the structure would otherwise have required extensive repairs, and it might have interfered with future building operations on the property.

AUTOMATIC FLUSH TANKS.

Two automatic sewer flushing appliances have been purchased from the Pacific Flush Tank Company of Chicago, one of which has been installed at the end of the Marengo Park sewer, and with one exception has operated successfully. The shallow depth of the extremities of the pipe sewers ordinarily does not admit of the placing of these devices, but if in future operations the sewers could be built at a greater depth, it would be well to install more automatic tanks to determine any economies resulting from their use.

DEFECTIVE SEWERS.

The pipe sewers in Forest Park avenue, Marengo Park and Magnolia terrace, built ten to fifteen years ago by private parties, have required a number of repairs during the year owing to their defective condition, and, as the capacity of some of them is insufficient, it seems probable that they will have to be renewed in the near future.

Numerous cement pipe sewers, some of which were built by private parties, are also defective and will require rebuilding.

The Union street trunk sewer easterly of Main street, built about forty years ago, is in very defective condition and should be rebuilt. The single ring of brickwork, laid in lime mortar, possesses little strength and is badly worn on the bottom. Between Main and Dale streets its depth is insufficient to properly supply the needs of the locality.

SURCHARGED SEWERS.

At times of heavy rain it has been apparent for a number of years that numerous sewers about the city have been unable to properly provide for the flow of storm water.

On September 12, 1906, a storm at the rate of about two inches per hour for a period of twenty minutes caused considerable damage in the southerly section of the city. Water spurted from the perforated manhole covers in Belmont avenue hill, and the manhole covers in Fort Pleasant avenue were dislodged from their rims by the force of water in the manholes, showing conclusively that these two sewers have insufficient carrying capacity at times of heavy rains.

Boards which had been whitewashed were attached vertically to manholes in various parts of the city, in order that the head under which the sewers were running at times of storm might be recorded. These have shown that some sewers have been heavily surcharged, and require enlargement in order to furnish proper sewerage facilities. On this account petitions have been circulated and have been signed by interested property owners, asking for relief from flooding of cellars on various streets.

RECEIVING BASINS.

The outlets to the receiving basins connected with the sewers tributary to the Pine street system, and a few other basins, have been reduced from eight inches to four inches in diameter by the insertion of short lengths of pipe, in order to retard the flow of surface water to the sewers, thus preventing the backing up of storm water into cellars of houses connected with the sewer system. Since this has been done no reports of cellar flooding have been received in this office from this section of the city.

Conclusive proof of the success of this measure, however, may not be had for a year or two.

SEWERS ORDERED BY THE BOARD OF ALDERMEN.

The estimated cost of sewer work ordered by the Board of Aldermen, and remaining unfinished at the close of the fiscal year, is practically $40,875.

FIRST ASSISTANT SUPERINTENDENT.

The position of First Assistant Superintendent, made vacant by the death of Michael Roane, and referred to in my last annual report, has been filled by Howard O. Buck, whose appointment to the position was approved by the Board of Aldermen on March 12, 1906. Since this date Mr. Buck has had general oversight of the work of the Department, for which I thank him.

CONCLUSION.

It gives me pleasure to express thanks to the members of the Committee on Sewers and Drains, Aldermen W. A. Ford, William S. Warriner and William E. Sanderson for the uniform courtesies they have extended during the year.

Respectfully submitted,

ARTHUR A. ADAMS,

Superintendent of Sewers.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

CITY OF SPRINGFIELD,

SEWER SYSTEM TABULATED TO DECEMBER 10, 1906.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Abbe ave., Fisk ave., westerly.	301	15"	Clay	$497.38	
	275	12"	"		
Plainfield st., westerly.....	300	18"	"	1,405.16	
	300	15"	"		
	301	12"	"		
	200	10"	"		$1,902.54
Acushnet avenue, Main street, easterly........	294	20"	"		298.49
	279	18"	"		
	271	15"	"		
	26	12"	"		
Adams st., Main st. to Town brook	149	18"	"	322.22	
Town brook, easterly.....	890	....	Brick	66.68	
Richelieu st., westerly.....	237	12"	Clay	304.12	693.02
Alden st., Hancock to Eastern ave...............	595	18"	Cem.	1,646.13	
	820	15"	"		
Eastern ave., to Wilbraham ave..................	895	15"	Clay	911.39	
Wilbraham ave. to Hickory st.	499	10"	"	250.86	2,808.38
Alderman st., Dickinson st., easterly	296	18"	"		916.78
	304	15"	"		
	300	12"	"		
	137	10"	"		
Alexander street, North street, easterly.................	288	10"	"		188.48
Alfred st., Birnie ave., easterly.	377	10"	"		......
Allen ave., Allen st., easterly.	338	10"	"		232.78
Allen st., Mill river to Oakland st.	216	24"	"	576.86	
Mill st. to Oakland st.....	365	10"	"	447.19	
Oakland st. to Plumtree rd..	686	24"	"	1,882.06	
	383	18"	"	1,598.59	
	474	15"	"		
	580	12"	"		
	1,603	12"	"	881.58	
	1,401	10"	"	984.62	6,320.90
Allendale st., North st., easterly	272	12"	"		401.48
	340	10"	"		
Amaron st., State st., southerly	349	10"	"		222.90

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Amherst street, Harvard street, northerly	441	12″	Cem.	$146.99	
	25	10″	Clay	23.78	
Princeton to Monmouth st..	512	12″	"	622.90	
	191	10″	"		
					$793.67
Andrew st., State st., northerly	463	20″	"		1,753.67
	422	18″	"		
	382	12″	"		
Arbor st., Butler to Carew st..	398	12″	"		318.05
Arch st. (see Garden brook).					
Armory Hill Sewer (see private ways).					
Armory st., Worthington st., southerly	570	15″	Cem.	658.06	
Summer st , southerly	374	12″	"	384.78	
	325	10″	"	193.87	
B. & A R. R. to Liberty st.	690	15″	"	1,165.47	
	360	12″	"		
	271	10″	"		
Liberty to Sullivan st	450	1′-10″x 2′-9″	Brick	2,439.42	
	476	1′- 8″x2′-6″	"		
Sullivan to Carew st	156	24″	Clay	975.77	
	267	20″	"		
	290	12″	"		
Carew st., northerly	283	8″	"	107.71	
Springfield st., southerly	31	20″	"	317.00	
	146	18″	"		
					6,242.08
Ashley st., Cedar st., easterly	65	18″	"	80.45	
	580	15″	"	1,555.00	
	697	12″	"		
					1,635.45
Atwater Terrace road, Green lane, westerly	322	20″	"		....
	199	18″	"		
Auburn st., Fulton st., easterly	397	12″	"		655.06
	335	10″	"		
Autumn st., Summer to Worthington st	239	15″	"		715.29
Avon place, Maple st., easterly	695	24″	"		3,359.45
Bancroft st., Garden brook to Chestnut st	1,361	3′-4″x5′-0″	Brick		8,914.04
including Chestnut st., Bancroft to Montmorenci st..	379	3′-2″x4′-9″	"		
Montmorenci st., Chestnut st., easterly	43	3′-2″x4′-9″	"		
Bay st., St. James avenue to Pleasant st	250	15″	Clay	715.01	
	245	12″	"		
	228	10″	"		

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Florida to Pleasant st..	235	12″	Clay	$321.02	
Florida to Sherman st	304	20″	"	1,092.89	
	377	18″	"		
	812	15″	"	945.16	
Sherman to Clarendon st	151	8″	Cem.	46.82	
Catharine to Clarendon st	194	10″	Clay	200.66	
Bowles to Cambridge st	1,037	2′-8″x4′-0″	Brick	8,056.62	
	360	2′-2″x3′-3″	"		
Cambridge st., easterly	247	8″	Clay	61.87	
Beacon st., Eastern ave. to Colton st	250	10″	"	119.21	$11,440.05
Colton st., easterly	124	8″	"	3.65	
					122.86
Beaudry st., I. O., Main st., southerly	300	12″	"		745.95
	270	10″	"		
Beaumont st., Belmont ave., northerly	250	12″	"		403.87
	431	10″	"		
Becket st., Arch to Hooker st.	1,048	24″	"		....
Beech st., Central st., northerly.	410	10″	Cem.		95.58
Beechwood ave., Sumner to Spruceland ave	595	12″	Clay		19.09
Belgrade place, Walnut st., westerly	220	8″	"		....
	140	6″	"		
Bellevue ave., Belmont ave., easterly	300	18″	"	....	
	300	15″	"		
	194	12″	"		
Dickinson st., westerly	744	10″	"	....	
					....
Belmont avenue, Fort Pleasant ter., easterly	90	10″	"	93.92	
Mill river to Woodside ter..	954	20″	"	2,698.67	
Woodside ter. to Litchfield st.	660	2′- 0″x3′-0″	Brick	11,750.19	
	445	1′-10″x2′-9″	"		
	595	1′- 8″x2′-6″	"		
	550	1′- 6″x2′-3″	"		
Litchfield street to Kenwood Park	432	20″	Clay	1,451.58	
	493	18″	"		
Kenwood Park to Sumner ave	301	15″	"	871.69	
	403	12″	"		
	616	10″	"		
Sumner ave., southerly	830	3′-4″x-5′-0″	Brick	8,216.97	
	819	3′-0″x-4′-6″	"		
					25,082.97
Belmont court, Belmont ave., southerly	216	10″	Clay		146.76

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Benton st., State st., southerly.	301	12″	Clay	$513.96	
	300	10″	"		
	247	8″	"		
	320	8″	"	419.68	
					$933.64
Berkeley st., Princeton to Monmouth st.	483	12″	"		517.22
Berkshire st., I. O.,					
Oak to Myrtle st.	701	12″	Cem.	946.21	
Oak st., easterly	326	12″	Clay	305.51	
Chestnut st. to Myrtle st	577	12″	"	545.74	
					1,797.46
Besse place, Main st., westerly.	290	10″	"		....
Birnie avenue, Wason avenue, northerly	362	24″	"	579.11	
Wason ave., southerly	350	18″	"	1,024.75	
	417	15″	"		
Worcester street extension, northerly to Grace st.	162	15″	Cem.	....	
Worcester street extension, southerly to Walter st.	144	12″	"	....	
Douglas st., northerly	292	24″	Clay	1,149.93	
	303	20″	"		
	304	15″	"		
	144	10″	"		
Douglas st. to Thomas st.	373	1′-10″x2′-9″	Brick	1,319.73	
Thomas st., southerly	312	20″	Clay	768.74	
	316	18″	"		
					4,842.26
Bliss st., from Main to N. Y., N. H. & H. R. R.	1,284	12″	Cem.		1,190.68
Bond place, including 41 feet in Bridge st. (for cost see Symonds ave.)	203	12″	"		....
Bond st., Garden Brook sewer to Chestnut st	341	2′-0″x3′-0″	Brick	1,580.25	
	959	24″	Clay	2,195.84	
					3,776.09
Bowdoin st., Worthington st., southerly	673	15″	Cem.	740.00	
Worthington to Ingersoll gr.	819	12″	"	758.64	
					1,498.64
Bowles st., Bay to McKnight,	752	15″	"	1,058.67	
Pease st., northerly	275	8″	Clay	35.77	
					1,094.44
Boylston st., Cypress to Clinton street	610	18″	Cem.		1,638.72
	346	15″	"		
Brace street, Belmont avenue, northerly	137	10″	Clay		....

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Bradford. st., North Main to Fulton st	352	15″	Cem.		$1,301.99
	758	12″	"		
Bridge st., Main st. to Conn. River	798	12″	"	$718.79	
	275	15″	Clay	429.14	
Main to Chestnut st	1,158	2′-0″x3′-0″	Brick	5,414.20	
					6,562,13
Broad st., Hanover to Main st.	970	15″	Cem.		1,401.19
Brookline avenue, North st., easterly	328	12″	Clay		29.57
	171	10″	"		
Brown st., Yale to Bay st	483	10″	Cem.		357.65
	21	8″	"		
Buckingham place, Bay street, westerly	235	10″	Clay		168.97
Buckingham st., Bay to Clarendon st	651	12″	"	597.24	
Bay st., southerly	35	12″	Cem.		
State to Bay st	305	18″	Clay	1,158.40	
	345	15″	"		
	675	12″	"		1,755.64
Burr st., Andrew st., easterly	570	12″	"		428.83
Butler st., Chestnut to Cass st.	1,268	20″	"	2,021.96	
Cass st., easterly	321	20″	"	520.71	
					2,542.67
Calhoun st., North Main to North st	853	12″	"	631.40	
North st., easterly	300	8″	"	227.19	
					858.59
Cambridge street, Bay street, southerly	276	20″	"	1,100.88	
	331	18″	"		
	266	15″	"		
	302	12″	"	411.63	
	278	10″	"		
					1,512.51
Card-factory pond (see private ways).					
Carew st., Main st. to Garden brook (cost shown under Clinton st.)	250	4′-6″x6′-9″	Brick	....	
	32	5′-0″	"	....	
Garden brook to Prospect st.	1,456	4′-3″ cir.	"	21,913.22	
	1,257	3′-0″ cir.	"		
	791	2′-8″ cir.	"		
Massasoit street, easterly	580	18″	Cem.	671.51	
	200	12″	"	153.28	

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Armory st. to Liberty st....	1,101	10″	Clay	$787.87	
	448	8″	"		
					$23,525.88
Cass st., Liberty to Franklin st.	500	12″	"	457.99	
	163	10″	"		
Linden st., southerly.......	596	15″	"	892.07	
Linden st., northerly.......	224	12″	"		
					1,350.06
Catharine st., Dartmouth to McKnight st............	833	2′-0″x3′-0″	Brick	4,428.92	
State st. to McKnight st..	348	15″	Clay	1,348.95	
	438	12″	"		
	333	10″	"		5,777.87
Cedar st., Pine to Walnut st...	180	3′-10″x5′-9″	Brick	889.35	
	1,074	3′- 8″x5′-6″	"	6,206.73	
Pine st., westerly..........	378	12″	Cem.	288.32	
					7,384.40
Cedar st., I. O., Main st. to river........	483	2′-0″x3′-0″	Brick	2,001.44	
Main st. to Center st.......	274	12″	Clay	198.76	
Cemetery brook (see private ways).					2,200.20
Center st., I.O., Oak to Pine st	463	12″	Cem.	510.73	
Pine to Cedar st	349	12″	Clay	644.61	
	300	10″	"		
					1,155.34
Central st., Main st., easterly..	99	15″	Cem.	147.60	
	546	12″	"	385.49	
Main to near Maple st......	527	2′-0″x3′-0″	Brick	2,275.08	
	700	1′-8″x2′-6″	"		
near Maple street to Sterns terrace.................	769	18″	Clay	1,211.88	
	105	12″	"	199.95	
Sterns terrace to Cedar st...	334	18″	Cem.	102.50	
Pine st., westerly..........	500	12″	Clay	568.42	
Pine to Spruce st.........	339	12″	Cem.	376.00	
	335	12″	Clay	514.05	
	310	10″	"		
Spruce to Hancock st.....	861	20″	"	1,344.35	
Hancock st. to Mill st	597	2′-0″x3′-0″	Brick	2,135.31	
Mill st. to Mill river.	40	24″	Clay	136.88	
					9,397.46
Central st. place, Knox to Central st.	279	10″	Cem.	197.64	
	285	12″	"	44.07	
					241.71
Chapel street, Eastern avenue, easterly................	400	10″	Clay		208.13

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Chase ave., Fort Pleasant ave., easterly	238	12"	Clay		$24.49
	333	10"	"		
Charles st., Liberty st., northerly	654	12"	"	$576.40	
Liberty st., southerly	29	12"	"	12.94	
				———	589.34
Charter avenue, Walnut street, easterly	527	12"	"		475.20
Cherrelyn ave., Phœnix ave., southerly	300	15"	"		410.62
Cherry lane, Mill river to Central street	398	18"	"		1,454.15
	434	15"	"		
	251	12"	"		
	295	10"	"		
Cherryvale avenue, Long Hill st. to Florentine gardens.	596	10"	"		15.74
Chester st., Hancock to Central street	330	8"	"		....
Chestnut st., Edwards street, southerly	575	12"	Cem.	579.02	
Mattoon st., southerly	288	15"	"	319.69	
Pearl to Mattoon st	313	1'-4"x2'-0"	Brick	445.40	
Pearl to Bridge st	148	1'-8"x2'-6"	"	599.51	
Bridge to Worthington st	480	2'-0"	"	....	
Worthington to Taylor st	60	18"	Cem.	291.17	
	244	12"	"		
Lyman st. to B. & A. R. R.	134	18"	"	355.41	
	72	12"	"		
Franklin st., southerly	500	12"	"	358.75	
Franklin st., northerly	397	12"	"	294.14	
Essex to Everett st	374	15"	"	586.72	
Carew st., southerly	126	8"	Clay	100.68	
Carew to Prospect st	424	24"	"	1,618.64	
	537	20"	"		
Prospect st., northerly	220	12"	Cem.	178.88	
Bancroft st., southerly	172	12"	"	123.00	
	108	12"	Clay	190.55	
	19	10"	"		
Bancroft to Montmorenci st.	391	15"	Cem.	535.24	
Bancroft st. to Montmorenci st. (see Bancroft st.)	....	3'-2"x4'-9"	Brick	....	
Montmorenci to Waverly st.	185	12"	Cem.	252.23	
	717	12"	Clay	807.01	
Douglas st., southerly	450	10"	"	385.61	
Douglas to Springfield (see Springfield st.)	....	3'-6"	Brick	....	
Merwin st., southerly	178	10"	Clay	....	
Eagle st., northerly	87	15"	"	....	
Eagle st., southerly	171	10"	"	....	
				———	8,021.65

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Chestnut st., I. O., Worcester to Hampden st.	342	15″	Cem.	$340.25	
	30	15″	Clay	55.26	
Hampden to Berkshire st.	307	15″	"	342.65	
					$738.16
Church st., Garden brook to North st	556	18″	"	1,398.71	
	80	15″	Cem.	157.23	
					1,555.94
Churchill st., Sumner ave. to Garfield st.	580	12″	Clay	84.12	
	55	8″	"	6.89	
					91.01
Clantoy st., Phœnix avenue, southerly	398	15″	"		696.54
	253	12″	"		
Clarendon st., Worthington st., westerly	205	10″	"	225.80	
Worthington to St. James ave.	336	18″	Cem	1,859.31	
St. James ave. to Sherman st.	280	15″	Clay		
	605	12″	"		2,085.11
Clark st., Hancock st., westerly	520	10″	"		531.80
Cleveland street, Armory to Liberty st	274	18″	"		790.48
	250	15″	"		
	276	12″	"		
	284	10″	"		
Clifford st., Bay st., northerly	250	12″	"		319.95
	119	10″	"		
Clifton avenue, Central street, southerly	406	8″	"		82.10
Cliftwood ave., Sumner ave., southerly	464	10″	"		....
Clinton st., Boylston st., easterly	410	12″	Cem.	441.52	
submerged outlet	176	24″	Wood	2,207.90	
	24	24″	C.Ir'n		
Conn. river to Fulton st.	593	4′-10″x7′-3″	Brick	26,137.87	
Fulton st., Clinton to Sargeant street					
Sargeant st., Fulton to Main street					
Carew st., Main st. to Garden brook					
(For lengths and sizes see individual streets.)					
					28,787.29
College ave., State st. to Shattuck ave	839	12″	Clay	139.62	
Shattuck ave., northerly	175	12″	"	37.94	
					177.56

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
College st., State st. to Wilbraham road	34	12″	Clay		$349.92
	443	10″	"		
Collins st., Eastern avenue to Logan st.	300	12″	"		457.04
	269	10″	"		
Colonial avenue, State street, southerly	326	12″	"		....
	348	10″	"		
Colton st., Wilbraham road to Beacon st.	448	18″	"		1,892.82
	569	15″	"		
	658	12″	"		
Columbia terrace, Liberty st., north and east	498	10″	"		....
Commonwealth ave., Belmont ave. to Washington street	441	24″	"		2,878.00
	500	20″	"		
	549	18″	"		
Congress st., Garden brook to Main st.	151	15″	Cem.	$528.44	
	221	12″	"		
Garden brook to Chestnut st.	133	20″	Clay	1,463.00	
	198	18″	"		
	369	15″	"		
	288	12″	"		
	119	15″	Cem.	277.22	
	76	10″	"		
					2,268.66
Continental ave., Sumner ave., southerly	215	12″	Clay		27.45
	202	10″	"		
Cook's ave., Worthington st. to N. Church ave.	117	15″	Cem.		573.84
N. Church avenue, southerly (includes cost of N. Church ave.)	69	10″	"		
Cornell st., Dartmouth terrace to Wellesley st.	185	15″	Clay	543.05	
	374	12″	"		
Wellesley street., easterly	186	10″	"	208.20	
Princeton st., westerly	52	10″	Cem.	47.30	
	86	8″	Clay	88.04	
Princeton st., easterly	181	10″	Cem.	100.72	
	120	10″	Clay	149.53	
					1,186.84
Court st., Water st., easterly	273	12″	Cem.	226.15	
Court Square ave., westerly	431	12″	"	553.45	
Main st. to Court Square ave.	200	12″	"	309.67	
					1,089.27

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Cortland street, State street northerly	164	15"	Clay		$672.01
	621	12"	"		
Crosby st., Walnut st., westerly	321	10"	"		231.38
Cross st., Main to Willow st.	388	18"	"	$878.12	
Willow st., easterly	363	12"	Cem.	311.56	
					1,189.68
Crystal ave., Belmont avenue, easterly	251	15"	Clay		24.07
	250	12"	"		
	298	10"	"		
Cumberland st., Chestnut st., westerly	167	10"	"	125.29	
North Main st., easterly	147	15"	"	182.77	
					308.06
Cypress street, Conn. river to Garden brook in Ferry st.	1,466	3'-4"x5'-0"	Brick		13,629.35
Cypress avenue, Cypress street, northerly	360	12"	Clay		484.08
Dale st., northerly from sewer 60 ft. south of Hubbard ave	203	10"	"	157.30	
Winthrop st., southerly	46	8"	"	13.08	
					170.38
Dartmouth st., St. James ave. to Yale st	973	3'-0"x4'-6"	Brick		8,247.06
Yale to Bowles st	295	2'-6"x3'-9"	"		
Dartmouth terrace, Worthington st. to Cornell st	499	20"	Clay		2,213.06
	357	18"	"		
	177	15"	"		
Davis court, Bridge st. to Harrison ave	450	12"	"		500.67
Dawes st., Bay st., southerly	229	15"	"		165.40
	380	12"	"		
	518	10"	"		
Dawson avenue, White street, westerly	350	10"	"		95.87
Demond avenue, Fisk avenue, westerly	510	12"	"		608.57
Plainfield st., easterly	403	12"	"		
Dexter st., Knox to Pine st	558	12"	Cem.	60.83	
	226	10"	Clay	245.10	
					305.93
Dickinson st., Mill st. to Sumner ave	35	4'-6" cir.	Brick	44,552.11	
	60	2'-1"x5'-0"	"		
	251	5'-0" cir.	"		
	679	4'-0" cir.	"		
	460	4'-10"x7'-3"	"		
	869	4'-8"x7'-0"	"		
	1,040	4'-4"x6'-6"	"		
	996	4'-2"x6'-3"	"		

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Sumner ave., southerly.....	1,379	2'-6"x3'-9"	Brick	$8,760.53	
	324	2'-4"x3'-6"	"		
	434	2'-0"x3'-0"	"		
	312	1'-10"x2'-9"	"		
					$53,312.64
Donald st., Birnie ave., easterly	315	10"	Clay		....
Dorchester st., St. James ave. to Amherst st	364	12"	"		359.50
	238	10"	"		
Douglas st., B. & M. R. R. to North Main st. (see Rowland ave.)..............	....	....	....		....
North Main to Chestnut st..	424	4'-6"	Brick		4,805.19
	442	4'-0"	"		
Dresden avenue, State street, southerly...............	359	12"	Clay		25.14
	321	10"	"		
Dwight st., Sanford to State st.	258	2'-8"x4'-0"	Brick	1,571.86	
Sanford to Harrison ave...	253	20"	Clay	1,441.27	
	229	18"	"		
	199	15"	"		
Harrison ave., northerly....	100	15"	Cem.	144.41	
Hillman st., southerly......	226	10"	Clay	257.25	
Hillman st., northerly......	103	10"	"	388.28	
Worthington st., southerly..	269	12"	"	433.91	
Worthington st., northerly..	342	12"	Cem.	374.73	
					4,611.71
Dymon st., Walnut st., easterly.	415	12"	"		385.92
Eagle st., North Main to Chestnut st..................	643	15"	Clay		....
East Court st., Dwight street, westerly	206	12"	"		308.10
	62	10"	"		
Eastern ave., Watershop pond to Manhattan st.........	1,164	24"	"	2,164.43	
Manhattan to Alden st.. .	338	20"	"	636.21	
Alden to Collins st........	231	12"	"	313.99	
Greene st., southerly.......	125	8"	"	69.58	
Greene to Ladd st.........	38	15"	"	27.25	
Olive st., southerly........	169	8"	"	119.57	
Lebanon to Olive st........	159	12"	Cem.	190.96	
Lebanon st., northerly.....	194	12"	"	331.17	
King st. to Chapel st... ...	152	10"	"	166.50	
	101	10"	Clay	149.70	
Pendleton ave., northerly...	312	12"	Cem.	190.38	
Tyler st., northerly.........	286	12"	"	181.30	
Quincy st., northerly.......	118	10"	"	131.15	
Monroe st., southerly.....	28	12"	"	45.09	
	210	8"	Clay	179.00	

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Monroe st., northerly	29	12″	Cem.	$51.50	
	128	8″	Clay	90.66	
					$5,038.44
Edwards st., Chestnut street, easterly	551	12″	Cem.		404.88
Elliott st., Salem st., southerly.	610	15″	"	730.48	
	243	12″	"	309.08	
					1,039.56
Elm st., submerged outlet.....	191	24″	Wood	1,700.79	
	26	24″	C. Iron	359.80	
Conn. river to Water st.....	385	3′-9″ cir.	Brick	10,744.19	
Water st. to Main st........	996	3′-8″x5′-6″	"		
					12,804.78
Elmwood st., Main st., westerly	300	18″	Clay		707.66
	249	15″	"		
	50	12″	"		
Emery st., Boylston st., east and west..............	542	12″	Cem.		616.36
Essex street, Garden brook, westerly................	418	15″	"	355.00	
Garden brook to Chestnut st	1,115	2′-2″x3′-3″	Brick	7,105.10	
	204	18″	Cem.	355.33	
					7,815.43
Essex st., I. O., Oak to Myrtle street..................	254	12″	Clay	424.89	
	145	10″	"		
	281	10″	"	210.09	
Oak st., easterly..........	183	10″	"	224.87	
					859.85
Everett st., Chestnut st. to brook	323	15″	"	308.39	
brook to Cass st..........	926	15″	"	821.43	
Cass st., easterly..........	....	....	....	104.35	
					1,234.17
Euclid ave., Belmont ave. to Dickinson st............	389	12″	"	1,102.00	
	741	10″	"		
	77	8″	"	50.67	
*Dickinson st., westerly....	350	15″	"	773.10	
	350	12″	"		
Dickinson st., easterly.....	275	10″	"	307.83	
					2,233.60
Fairbanks place, Worthington st., northerly	249	10″	"		220.66
Fairfield street, Litchfield to Garfield st.............	376	12″	"	....	
	556	10″	"	351.64	
					351.64
†Farnsworth st., Hamburg st., northerly..............	186	20″	"		608.11
Federal st., Worthington to Pearl st................	567	12″	Cem.	740.92	

---

* Surface drainage only.

† Incomplete.

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Summer st., southerly	274	10″	Clay	$172.00	$912.92
Ferry st., Main to Garden brook (see Cypress st.)	....	....	....	....	
Garden brook to Chestnut st.	1,168	2′-4″x3′-6″	Brick	5,417.12	5,417.12
Firglade ave., Sumner ave. to Spruceland st.	350	10″	Clay	46.01	
	203	8″	“		
Spruceland to Pineywoods avenue	447	10″	“		
	67	8″	“	....	46.01
Fisk ave., Rowland to Worcester ave	272	24″	“		
	275	20″	“	1,073.11	
	298	10″	“		
Wason ave., southerly	299	24″	“		
	294	20″	“	1,216.81	
	248	12″	“		2,289.92
Florence st., Pine st., easterly.	824	15″	Cem.	2,227.38	
	651	12″	“		
Hancock st., easterly	283	10″	“	303.15	2,530.53
Florentine gardens, Pineywoods ave., northerly	421	10″	Clay		22.83
Florida street, Worthington to Ingersoll grove st.	273	15″	Cem.	359.06	
	561	12″	“	523.88	
Worthington to St. James ave	935	2′-2″x3′-3″	Brick	4,499.10	
St. James ave. to Bay st.	599	24″	Clay	1,832.21	7,214.25
Forest st., Belmont ave. to Forest Park ave.	419	12″	“		651.98
	255	10″	“		
Forest Park ave., Fort Pleasant ave. to Garfield st.	1,081	24″	“	....	
	325	20″	“	1,217.48	
	562	18″	“		
Sumner ave., northerly	567	12″	“	123.15	
Sumner ave., southerly	66	10″	“	....	
	438	10″	“	318.29	
Pineywoods ave., northerly.	380	10″	“	33.87	1,692.79
Fort st., Main to Water st.	633	12″	Cem.		633.43
Fort Pleasant ave., Mill river to Sumner ave	888	2′-4″x3′-6″	Brick	13,339.80	
	1,825	2′-0″x3′-0″	“		
Mill st., southerly	428	12″	Clay	293.42	13,633.22

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Franklin street, Garden brook sewer to Main st	434	18″	Cem.	$555.27	
Garden brook sewer to Chestnut st.................	469	18″	"	1,834.76	
	735	15″	"		
Chestnut to Charles st......	273	15″	Clay	303.37	
Charles st., easterly........	670	12″	"	471.99	
Cass st. to Webster st......	621	12″	"	684.32	
	70	10″	"		
Nursery st., westerly.......	207	15″	"	....	
Nursery st. to Genesee st...	107	15″	"	199.98	
	557	15″	Cem.	....	
	27	12″	Clay	57.66	
					$4,107.30
Fremont st., Main to Water st.	780	1′-6″x1′-7″	Brick	702.45	
Main st., westerly.........	656	12″	Cem.	656.59	
	30	12″	Clay	65.21	
					1,424.25
Fulton st., Cypress to Clinton st.	944	12″	Cem.	826.66	
Clinton to Sargeant st., (cost shown under Clinton st.)..	1,080	4′-8″x7′-0″	Brick	....	
	42	4′-10″x7′3″	"	....	
Sargeant to John st........	871	15″	Cem.	1,219.02	
John st., northerly.........	314	12″	Clay	674.48	
	408	10″	"		
Garden brook sewer (see private ways).					2,720.16
Gardner ave., Gardner street, northerly...............	151	8″	"		73.11
Gardner st., Hanover to Water street	655	2′-0″x3′-0″	Brick	1,995.28	
Water to Main st	400	12″	Cem.	518.97	
					2,514.20
Garfield st., Forest Park ave., easterly	556	15″	Clay	967.16	
	514	12″	"		
Belmont ave., westerly.....	531	10″	"	329.87	
					1,297.03
Genesee st., Franklin st., southerly	200	10″	"		234.87
George st., Dexter st., southerly	409	10″	"		344.52
Girard ave., Bay st. to McKnight st...............	947	12″	"		711.13
Gordon st., Pasadena ave. to White st...............	618	15″	"		555.79
Grace st., Birnie ave., easterly.	274	15″	Cem.		51.56
Grand ave., Revere st., easterly	250	15″	Clay	....	
	252	12″	"		
Revere st., westerly.......	151	10″	"	....	
					....

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Grant st., Magazine to Armory street	588	12″	Cem.		$439.38
Granville st., Eastern ave. to Logan st	495	12″	"		560.46
Gray's avenue, Cypress avenue, northerly	495	12″	"		460.92
Greene st., Hancock to Eastern ave	610	18″	"		1,897.68
	793	15″	"		
Green lane, Rimmon avenue, westerly and northerly	744	12″	Clay	....	
	143	10″	"	....	.....
Greenleaf st., Sumner ave. to Garfield st	527	12″	"		133.60
Greenwich st., Becket street, easterly	300	12′	"		467.79
	300	10″	"		
Greenwood st., Garden brook to Main st	386	12″	Cem.		2,231.69
Garden brook, easterly	538	15″	Clay		
	113	12″	"		
	452	12″	Cem.		
Grenada terrace, Dickinson st. to Ventura st	220	18″	Clay	$708.45	
	310	15″	"		
Ventura st., easterly	76	12″	"	52.72	
					761.17
Grosvenor st., North to Chestnut street	131	18″	Cem.		686.55
	648	15″	"		
Grove st., North Main street, easterly	409	10″	Clay		442.65
North st., westerly	270	10″	"		
Grover street, Armory street to Liberty st	300	18″	"		898.06
	303	15″	"		
	298	12″	"		
	432	10″	"		
Hall st., Belmont ave. to Dickinson st	500	12″	"		904.55
	474	10″	"		
Hamburg st., Springfield st., easterly	367	20″	"		1,067.20
	235	10″	"		
Hampden st., Water street to Main st	569	15″	Cem.		762.57
Hampden st., I. O., Chestnut st., easterly	285	12″	"	187.28	
	174	12″	Clay	299.12	
Holly st., easterly	150	10″	"	165.26	
					651.66

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Hampshire st., I. O., Oak st., westerly	300	12″	Clay	$633.59	
	398	10″	“		
Oak st. easterly	250	12″	Cem.	206.20	
Myrtle st., westerly	300	10″	Clay	278.62	
					$1,118.41
Hancock street, Mill river to Central st.	920	12″	“	866.30	
Central to Walnut st.	218	18″	Cem.	1,759.06	
	1,343	15″	“		
Walnut to Alden st	122	12″	“	88.00	
Lebanon to Alden st	827	2′-0″x3′-0″	Brick	5,009.61	
Walnut (through Lebanon) to Quincy st	1,852	3′-6″x5′-3″	“	21,668.02	
Quincy to State st	913	3′-4″x5′-0″	“		
					29,390.99
Hanover st., York st. to Gardner st	830	2′-2″x3′-3″	“		2,650.26
Harriet st., North Main st. to North st	250	15″	Clay	377.17	
	207	12″	“		
North st., easterly	330	10″	“	172.92	
					550.09
Harrison ave., Main st. to Chestnut st	600	15″	Cem.	874.11	
	250	8″	Clay	203.61	
					1,077.72
Harvard st., Yale to St. James ave	316	18″	“	967.94	
	300	15″	“		
	291	12″	Cem.	266.84	
St. James ave. to Cornell st.	736	12″	“	25.66	
					1,260.44
Hawley st., Wilbraham road to Monroe st	181	12″	“	40.40	
	330	10″	Clay	240.17	
					280.57
Hawthorn st., Hancock street, westerly	441	12″	Cem.		445.87
Hayden st., State st., northerly.	335	12″	Clay		24.11
	299	10″	“		
	222	8″	“		
Hebron st., North to Chestnut st.	663	12″	“		492.56
Hickory st., Mill river intercepting sewer to Alden st	754	20″	“		2,446.84
	228	18″	“		
	184	15″	“		
	788	12″	“		
High street, Maple street to Ingraham ave	523	18″	“	1,958.92	
	567	15″	“		
	550	12″	“		
Ingraham ave., easterly	846	12″	“	945.32	
					2,904.24

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Hillman st., Main to Dwight st.	350	15″	Clay		$1,436.30
	380	12″	"		
Hillside place, Richelieu court, easterly	106	8″	"		....
Holly st., I. O., Worcester to Hampden st	377	15″	"		419.11
Holyoke st., Main st., westerly.	784	12″	Cem.		928.06
Homer st., State st., southerly.	31	12″	Clay		87.00
	370	10″	"		
Hooker street, North Main st. to North st.	444	10″	Cem.	$39.04	
	255	10″	Clay	....	
					39.04
Horace st., Dickinson street, northerly	363	12″	"		783.12
	411	10″	"		
Howard st., Main st., westerly.	344	15″	"	799.34	
	321	12″	"		
Water st., easterly	312	12″	Cem.	289.14	
Water st., westerly	350	12″	"	364.47	
					1,452.95
Hubbard avenue, Main street, easterly	257	15″	Clay		630.47
	321	12″	"		
Hunt terrace, Allen street, northerly	304	10″	"		....
Huntington st., Becket street, easterly	300	12″	"		416.95
	300	10″	"		
Ingersoll grove, Worthington st., northerly	782	12″	Cem.	1,038.85	
	218	8″	Clay		
Bowdoin st., easterly.	132	10″	"	106.53	
					1,145.38
Irvington ave., Sumner ave., southerly	300	12″	"		....
	100	10″	"		
Jackson street, Sumner ave., southerly	460	10″	"	56.78	
	140	8″	"		
Pineywoods ave., northerly.	281	10″	"	....	
					56.78
James st., Cedar st., northerly.	289	15″	Cem.		924.38
	534	12″	"		
Jefferson ave., North Main st. to Chestnut st	299	20″	Clay	1,663.86	
See private ways also.	299	18″	"		
	276	15″	"		
	60	12″	"		
	414	12″	Cem.	492.50	
	78	6″	Clay	37.89	
					2,194.25

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
John st., Fulton to Plainfield st.	652	12″	Cem.		$420.18
Johnson st., Dickinson st. to Pasadena ave	1,964	18″	Clay		3,756.87
Keith st., Belmont ave. to Dickinson st	551	12″	"		1,106.40
	551	10″	"		
Kensington ave., Oakland st., easterly	320	18″	"		493.42
Kenwood Park, Belmont ave., northerly	130	12″	"		139.96
	1,127	10″	"		
Kibbe ave., Summer st. to Worthington st	260	18″	"		552.92
King st., Walnut to Hancock st.	504	15″	Cem.	$921.37	
	441	12″	"		
Hancock to Eastern avenue	710	18″	"	1,808.75	
	686	15″	"		
Eastern ave. to Logan st	405	12″	"	96.24	
	72	10″	Clay		
* Westford ave. to Wilbraham ave	427	10″	"	321.81	
					3,148.17
Knox st., Mill river to Windsor st	1,115	15″	Cem.		116.18
	198	12″	"		
Ladd st., Eastern ave. to Logan st	243	15″	Clay		424.92
	304	12″	"		
Lafayette st., St. James ave. to Amherst st	582	12″	"		514.86
	21	10″	"		
Laurel ave., Conn. river to Plainfield st	888	18″	Cem.	2,088.10	
	60	18″	Clay	282.48	
					2,370.58
Laverne ave., Bellevue to Marengo ave	211	10″	"		....
Lebanon st. (see Hancock)	....	3′-6″x5′-3″	Brick	....	
Hancock st., westerly	158	2′-0″x3′-0″	"	1,495.77	
Hancock to Eastern ave	606	18″	Cem.	1,701.28	
	816	15″	"		
					3,197.05
Lenox street, Sumner avenue, southerly	465	10″	Clay		32.91
Lexington ave., Chestnut st. to Massasoit st	668	12″	"		516.31
Leyfred terrace, Belmont ave., northerly	300	18″	"		957.30
	317	15″	"		

---

*Sanitary sewer.

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Liberty st., Garden brook to Main st	118	12″	Clay	$179.19	
	70	1′-6″x′1-7″	Brick	1,036.34	
	172	12″	Cem.		
Garden brook to Chestnut st.	967	15″	"		
	171	8″	"		
Chestnut to Webster st	784	2′- 4″x3′-6″	Brick	9,123.49	
	659	1′-10″x2′-9″	"		
	684	2′- 2″x3′-3″	"		
Webster to Armory st	366	3′- 0″x4′-6″	"	5,383.15	
	1,282	2′- 2″x3′-3″	"		
	317	1′-10″x2′-9″	"	2,539.81	
	449	2′- 2″x3′-3″	"		
Armory to Grover st	1,194	24″	Clay	3,126.37	
	616	18″	"		
					$21,388.35
Lillian st., Oak st., easterly	297	12″	"		232.47
Lincoln st., Magazine street to Federal st	823	12″	"		676.54
Linden st., Chestnut to Cass st.	470	18″	Cem.		1,254.55
	862	15″	"		
Litchfield st., Belmont ave. to Fairfield st	159	15″	Clay	335.11	
Garfield st., northerly	69	6″	"	7.10	
					342.21
Locust st., York to Mill st	84	3′-0″x4′- 6″	Brick		6,804.18
	364	2′-9″x4′-1½″	"		
	686	2′-6″x3′- 9″	"		
Logan st., Ladd st., northerly.	88	10″	Clay	67.64	
Granville st., northerly	200	10″	"	147.48	
					215.12
Lombard st., Water st., easterly	500	12″	Cem.		344.69
Long Hill st., submerged outlet.	26	18″	Clay	5,387.70	
	290	18″	Wood		
	28	18″	C. I.		
Conn. river to Washington avenue	1,310	24″	Clay	2,086.09	
(See Washington avenue.)	346	2′-4″x3′-6″	Brick	1,936.97	
Washington ave., northerly	399	15″	Clay	953.28	
	185	12″	"		
	487	10″	"		
Sumner ave., southerly	356	8″	"	386.61	
Warner pl. to Sumner ave.	423	10″	"	379.51	
					11,130.16
Loring st., Water st., easterly	650	12″	Cem.		750.93

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Lowell street, Conn. river to Plainfield st	305	18″	Clay		$986.21
	396	15″	"		
	396	12″	"		
	283	10″	"		
Lyman st., Main to Chestnut st.	1,335	2′-0″x 3′-0″	Brick	$6,113.12	
Chestnut to Spring st.	720	15″	Cem.	1,655.26	7,768.38
Lyons st., I. O., Main street, northerly	261	18″	Clay		389.58
Madison avenue, Central street, northerly	250	12″	"		737.57
	287	10″	"		
Magazine st., Worthington to Lincoln st	682	18″	Cem.		1,103.19
	249	15″	"		
Magnolia terrace, east side, Sumner ave. to Spruceland ave.	586	8″	Clay	142.29	
Spruceland ave., southerly	90	8″	"		
west side, Sumner ave. to Spruceland ave	622	8″	"		
overflow connection between east and west side	62	8″	"	26.00	
Washington ave. to Spruceland ave	362	24″	"	21.08	
	602	12″	"		189.37
Main st., Mill river to Mill st.	258	10″	"	342.25	
Locust st., southerly	800	15″	Cem.	1,430.27	
York to B. & A. R.R.	56	7′-0″, cir.	Brick	20,812.99	
	1,772	6′-6″, cir.	"		
	906	5′-6″, cir.	"		
	990	5′-0″, cir.	"	34,453.56	
	1,624	3′-4″x 5′-0″	"		
	864	2′-4″x3′-6″	"		
	263	12″	Clay	164.82	
Emery st., southerly	278	12″	"	389.20	
Emery st. to Sargeant	341	24″	"	2,539.81	
	442	20″	"		
	480	18″	"		
	186	15″	"		60,132.90
Main st., I. O., Chicopee river to Pine st	2,321	2′-4″x 3′-6″	Brick	7,636.81	
Pine to Cedar st	500	18″	Cem.	870.78	
	185	15″	"		
	103	12″	Clay	128.49	
Cedar to Lyons st	1,110	2′-0″x3′-0″	Brick	5,024.19	

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Lyons st., easterly.........	205	24″	Clay	$1,334.58	
	245	18″	“		
	129	12″	“	————	$14,994.85
Malden st., Allen st., southerly	542	15″	“		25.75
	291	12″	“		
	494	10″	“		
Manhattan st., Eastern ave. to Walnut st..............	290	15″	“		862.70
	645	12″	“		
	205	10″	“		
Maple st., State to Temple st..	315	18″	“	675.51	
	....	....	....	51.55	
Park to High st...........	225	18″	“	505.21	
Union st., southerly........	515	18″	Cem.	959.13	
	135	12″	“		
Central st., southerly......	33	18″	“	160.95	
	338	12″	“		
	784	12″	Clay	1,289.58	
Pine st., northerly.........	195	15″	Cem.	1,093.44	
	522	12″	Clay		
				————	4,735.37
Mapledell street, State street, northerly	337	15″	“		70.80
	300	12″	“		
	346	10″	“		
Maplewood ter., Fort Pleasant ave., easterly...........	682	15″	“		22.21
	329	12″	“		
	178	10″	“		
Marble st., Main st., easterly..	222	18″	Cem.		1,178.97
	586	15″	“		
	242	12″	“		
Marengo Park, Belmont ave., easterly	443	15″	Clay		95.25
	612	12″	“		
	778	10″	“		
Margaret st., Water st., westerly	520	12″	Cem.	507.30	
Water st., easterly.........	858	12″	“	801.44	
				————	1,308.74
Marion st., Bay st., southerly..	833	12″	Clay	795.45	
Chapin st., easterly........	94	10″	“	25.89	
	319	8″	“		
				————	821.34
Market st., State st., northerly	119	10″	“	......	
Sanford st., southerly......	200	12″	“	412.04	
Sanford street to Harrison ave.	301	15″	“	1,197.72	
	350	12″	“		
				————	1,609.76

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Mason st., State to Pease st..	349	15″	Clay		$746.99
	359	12″	"		
Massachusetts ave., Wilbraham road, southerly..........	300	15″	"		953.68
	300	12″	"		
	227	10″	"		
Massasoit place, Massasoit st., easterly	381	12″	"		....
Massasoit street, Carew street, northerly...............	709	12″	Cem.	$579.69	
Lexington ave., southerly...	300	12″	Clay	258.56	
	250	10″	"		
Montmorenci st., southerly..	233	10″	"	168.93	
Montmorenci st., northerly.	152	10″	"	92.94	
				———	1,100.12
Mattoon street, Chestnut to Salem st...............	356	1′-4″x2′-0″	Brick		688.50
	87	15″	Cem.		
Maynard st., State st. to Shattuck ave.	431	15″	Clay		607.82
	400	12″	"		
McKnight st., Catharine to Sherman st.......... ..	255	15″	Cem.	421.42	
	30	15″	Clay	56.78	
Catharine to Bowles st.....	141	10″	Cem.	67.27	
	26	10″	Clay	75.32	
Bowles street to Girard ave.	119	12″	Cem.	81.85	
	263	10″	Clay	233.51	
				———	936.15
Mechanic street, Water street, westerly................	302	12″	Cem.	205.25	
	20	8″	Clay	26.48	
				———	245.55
Medford street, Birnie avenue, easterly................	390	12″	"		367.29
	183	10″	"		
Melrose st., Marshall place and Cottage ave.............	429	18″	"		....
	263	15″	"		1,845.66
	74	12″	"		
	772	10″	"		
	169	8″	"		
Merrick avenue, King street, southerly	301	12″	Cem.		48.50
Merwin st., North Main to Chestnut st.............	774	15″	Clay		....
Mill river intercepting sewer, Mill river to Locust st...	370	5′-3″	Brick	6,066.64	
	691	4′-0″	"		

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Locust st. to Hickory st....	587	4' 0", cir.	Brick	$42,706.00	
	131	3'-6"x 5'-3"	"		
	1,743	5'-9", cir.	"		
	779	4'-3", cir.	"		
	1,611	3'-3", cir.	"		
in Mill and Hickory sts ...	833	2'-2"x3'-3"	"	9,355.23	
Hickory st. to Gunn square brook by northerly shore of Watershops pond.....	4,495	2'-2"x3'-3"	"	45,545.71	
					$103,673.58
Mill st., Main st., easterly.....	236	8"	Cem.	75.45	
Locust to Pine st..........	943	2'-6"x 3'-9"	Brick	4,764.79	
					4,840.24
Monmouth st., Dorchester st., northerly and easterly....	199	12"	Clay	218.15	
	171	10"	"	121.75	
Yale st., westerly..........	64	12"	"	45.95	
	278	10"	"	281.47	
Berkeley st., northwesterly..	350	12"	"	235.62	
					902.94
Monroe st., Hancock to Eastern ave	611	18"	Cem.		1,983.29
	789	15"	"		
Eastern ave. to Colton st..	316	12"	"		
Monson avenue, Greene street, northerly	200	8"	Clay		....
Montmorenci st., Chestnut to Massasoit st.............	676	12"	"		790.32
Montrose st., State to Burr st..	338	15"	"		75.74
	217	12"	"		
	329	10"	"		
Morgan st., Garden brook to Main st	252	12"	Cem.	199.08	
Garden brook to North st..	25	18"	"	48.07	
	634	18"	Clay	1,460.31	
					1,707.46
Morris st., Main st., easterly..	915	2'-0"x 3'-0"	Brick	2,942.83	
	496	12"	Cem.	359.07	
					3,301.90
Mountainview st., Forest Park ave., easterly............	297	12"	Clay		28.19
	297	10"	"		
Mulberry st., Maple st., easterly and northerly...........	687	15"	Cem.	1,246.18	
	629	12"	"		
	246	10"	Clay	233.59	
west from Ridgewood terrace..................	144	15"	"	....	
					1,479.77
Murray Hill ave., Liberty st., northerly...............	....	....	"		96.24
Myrtle st., Card Factory Pond brook, northerly.........	107	10"	"		69.76
	237	8"	"		

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Myrtle st, I.O., Main to Worcester	377	24"	Clay	$1,003.44	
Worcester st., southerly	378	10"	"	355.34	
Berkshire st., southerly	180	10"	"	189.63	
Hampshire st., southerly	126	10"	"	100.99	
					$1,649.40
Nelson avenue, Greene street, northerly	90	12"	Cem.	27.96	
Lebanon st., northerly	188	10"	"	126.54	
					154.50
Nelson street, Nursery street, easterly	308	24"	Clay		....
New st., E. Court st., northerly	237	12"	Cem.	213.02	
	33	8"	Clay	14.18	
Dwight st., westerly	164	10"	"	203.79	
					430.99
Newman st., Knox st., westerly	175	12"	Cem.		11.49
Norfolk st., Wilbraham road, southerly	300	15"	Clay		566.08
	300	12"	"		
North st., Carew st., northerly	190	8"	Cem.	84.88	
Church to Grosvenor st	68	18"	"	157.13	
Morgan to Ringgold st	198	18"	"	356.84	
Osgood to Hebron st	130	18"	Clay	426.85	
	165	10"	"		
Bancroft st. southerly	302	18"	"	411.55	
Bancroft st., northerly	153	12"	Cem.	114.54	
Jefferson ave., northerly	233	8"	Clay	177.12	
Calhoun st., northerly	256	8"	"	48.13	
Waverly to Grove st	362	12"	"	302.86	
Harriet st., southerly	86	8"	"	....	
					2,079.90
Northampton ave., Wilbraham road, southerly	1,101	12"	"		830.79
North Church ave., Cook's ave., easterly	209	10"	Cem.		....
Cook's avenue, westerly (for cost see Cook's ave.)	133	10"	"		
No. Main st, Morgan st, southerly	232	8"	Clay	171.18	
Morgan st., northerly	173	8"	"	90.69	
Arch to Osgood st	730	15"	Cem.	713.66	
Arch st. to Jefferson ave	185	2'-2"x3'-3"	Brick	974.27	
Jefferson ave. to Grove st	359	24"	Clay	2,568.01	
	420	20"	"		
	285	15"	"		
Grove st., northerly	170	12"	"	226.45	
Douglas to Harriet st	551	1'-8"x2'-6"	Brick	1,874.35	
Harriet to Waverly st	250	24"	Clay	470.75	
Douglas to Eagle st	326	2'-4"x3'-6"	Brick	1,840.24	
	272	1'-10"x2'-9"	"		
Eagle st., northerly	142	24"	Clay	449.66	
Wason ave., southerly	215	2'-0"x3'-0"	Brick	860.00	

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Wason ave., northerly......	348	12″	Clay	$281.41	
					$10,520.67
Norwood st., Main to Hanover st.	1,051	12″	Cem.		1,069.55
Nursery st, Liberty to Franklin st.	694	2′-8″, cir.	Brick	2,284.52	
Franklin st., northerly.....	587	2′-8″, cir.	"	....	
					2,284.52
Oak st., Union to State.......	717	18″	Cem.	921.07	
Union to Tyler st.........	220	18″	Clay	752.00	
	268	15″	"		
Walnut st. to Tyler st......	158	18″	Cem.	280.65	
					1,953.72
Oak st., I. O., north from Main	179	15″	"	637.00	
	171	12″	"		
Main st., southerly	590	2′-2″x3′-3″	Brick	2,345.84	
brick sewer to Hampshire st..	797	24″	Clay	1,652.79	
Hampshire st., southerly...	285	18″	"		
	300	15″	"	1,562.43	
	400	12″	"		6,198.06
Oak Grove ave, State st, northerly	349	18″	"		
	327	15″	"		....
	158	12″	"		
	256	12″	"		....
Oakland st., Dickinson st. to Belmont ave..	895	24″	"	2,218.71	
Dickinson to Orange street.	254	24″	Clay		
	350	18″	"	1,619.20	
	170	12″	"		
	218	8″	"	110.79	
Allen to Orange street.....	625	18″	"		
	304	15″	"	1,428.06	
	193	12″	"		
	404	10″	"		5,376.76
Olive st, Eastern ave. to Logan st.	540	10″	"		400.76
Orange st., Oakland st., easterly	583	8″	"		
White st., westerly.........	381	12″	"		961.85
	649	10″	"		
White st., easterly.........	699	10″	"		
Orchard st., Plainfield street, westerly................	325	20″	"		
	301	15″	"		1,015.67
	297	12″	"		
	140	10″	"		
Orleans court, Orleans street, westerly................	205	8″	"		....
Orleans st., Union st., northerly.	39	12″	Cem.	36.28	
	310	12″	Clay	456.19	
	330	10″	"		
Tyler st., northerly	188	10″	Cem.	187.74	

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Pendleton ave., northerly..	231	12″	Cem.	$827.73	
					$1,007.89
Ormond st., Belmont to Sumner ave	275	10″	Clay		252.85
Osgood st., Garden brook to Main st.	257	12″	Cem.	1,544.57	
	588	18″	"		
Garden brook to North st.	92	18″	Clay	174.87	
					1,719.44
Oxford st., Riverview terrace, northerly	63	12″	"		....
Ozark street, Grand avenue, southerly	456	10″	"		23.58
Palmer avenue, Locust street, easterly	351	18″	"	1,190.78	
	337	15″	"		
	14	12″	Cem.	....	
					1,190.78
Park st., Main to Willow st.	395	24″	Clay	1,609.31	
Willow to Maple st	200	24″	"	1,431.05	
	557	18″	"		
					3,040.36
Parker st., I. O., Chicopee river to Main st	32	24″	"	261.81	
	221	12″	"		
Main st., southerly	1,098	24″	"	2,460.31	
Loon pond to B. & A. R. R.	1,227	12″	"	1,266.36	
					3,988.48
Parkwood st., Sumner avenue, southerly	215	12″	"		70.08
	204	10″	"		
Pasadena avenue, White street, southerly	156	12″	"		258.61
	291	10″	"		
Pasco street, I. O., Essex street, southerly	724	10″	"		607.80
Patton st., Garden brook to Main st	214	10″	"	173.73	
Garden brook, easterly	352	18″	"	1,572.67	
	349	15″	"		
	537	12″	"		
					1,746.40
Peabody lane, Willow street, westerly	216	10″	"		234.47
Pearl st., Chestnut to Spring st.	514	24″	"	1,792.62	
	447	20″	"		
Spring st., easterly	190	1′-6″ cir.	Brick	96.16	
					1,888.78
Pease st., Catharine to Bowles	250	12″	Clay		15.05

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Pendleton ave., Walnut st. to Hancock st	287	18″	Cem.	$1,668.94	
	524	15″	"		
	429	12″	"		
Hancock st. to Eastern ave.	600	18″	"	1,395.98	
	793	15″	"		
					$3,059.92
Phœnix avenue, Liberty street, easterly	236	18″	Clay		840.32
	250	15″	"		
	89	10″	"		
Pine st., Mill to Cedar st	740	2′- 6″x3′-9″	Brick	13,659.54	
	1,529	3′- 6″x5′-3″	"		
	500	3′-10″x5′-9″	"		
Cedar to Walnut st	62	18″	Cem.	1,665.54	
	884	15″	"		
	631	12″	"		15,325.08
Pine st., I. O., Main st., easterly	1,896	24″	Clay		4,170.03
Pine st. court, Pine st., easterly.	348	10″	Cem.		266.39
Pineywoods avenue, Washington ave., northeasterly	334	15″	Clay	....	
	263	12″	"		
Magnolia terrace, westerly	350	10″	"	....	
Magnolia terrace to Jackson st	343	20″	"	....	
	404	12″	"		
Jackson st. to Forest Park ave	341	12″	"	....	
Plainfield st., Sargeant st. to Fulton st	414	18″	"	2,525.13	....
	537	15″	"		
	456	12″	"		
	244	10″	"		
Washburn st., southerly	122	12″	"	129.78	
Washburn to Roseland st	331	2′-8″x4′-0″	Brick	1,555.00	
	303	2′-6″x3′-9″	"	2,367.93	
	287	2′-4″x3′-6″	"	4,518.58	
	294	2′-2″x3′-3″	"		
Rowland ave. to Talcott st	288	24″	Clay	1,208.95	
	299	20″	"		
Talcott ave., northerly	216	10″	"	158.46	
Wason ave. to Demond ave.	304	24″	"	1,253.59	
	249	20″	"		
	53	18″	"		13,717.42
Pleasant st., Bay st., southerly.	296	12″	Cem.		249.74
Plymouth st., Fulton st., easterly	375	10″	Clay		196.59
Pomona st., Sumner avenue, northerly	580	12″	"		459.94
Portland st., Birnie ave., easterly	251	12″	"		351.85
	224	10″	"		

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Portsmouth street..	212	12″	Clay		$253.65
Potter place, State st., northerly	396	15″	"		
	301	12″	"		....
	274	10″	"		
Prince st., King to Lebanon st.	329	12″	Cem.		338.15
Princeton st., Bay to Amherst st.	103	18″	"	$289.08	
	689	18″	Clay	724.15	
	151	15″	"	177.72	
Yale to Vassar st..........	665	12″	Cem.	....	
St. James ave. to Cornell st.	298	12″	"	195.52	
					1,386.47
Private ways:					
Armory Hill sewer from Armory st., through private grounds east of Armory st. to Worthington st.......	150	2′-5″x3′-7½″	Brick		
	900	2′-8″x4′- 0″	"		5,318.04
	249	2′-1″x3′-1½″	"		
Card-factory Pond, Woodworth ave., westerly between High and State sts	751	12″	Cem.	408.75	
in front and around High school................	492	24″	Clay	848.26	
High school to State st....	88	24″	"	192.35	
					1,449.36
Cemetery brook, Morris st., easterly, north of Central street..................	174	24″	"		569.59
Garden brook sewer, north from Liberty st. to B. & M. R. R. via Arch street about 300 feet east of Main st...............	2,936	5′-6″, cir.	Brick		
	766	5′-0″, cir.	"	47,577.34	
	1,308	4′-6″, cir.	"		
	236	3′-0″x4′-6″	"		
Worthington st., northeasterly to Lyman st., thence via Railroad land to Armory st...............	3,274	4′-7½″, cir.	"	29,761.32	
	952	4′-1″, cir.	"		
					77,338.66
Jefferson ave., passage way in rear of lots on south side.	135	2′-0″x3′-0″	"	....	
	518	12″	Cem.	364.84	364.84
Passage way, Ferry to Liberty st., 80 ft. east of Main st.	210	12″	Clay		402.70
Sewer in ave., Hampden st., southerly, near Water st.	111	12″	Cem.		147.14
Sewer, Main st. to Dale st., between Hubbard avenue and William st........	655	12″	"		441.92

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Springfield st. and Glenwood, via Atwater Glen.......	677	3'-6", cir.	Brick	$14,614.89	
	598	3'-3", cir.	"		
	389	4'-3", cir.	"		
	1,292	3'-0", cir.	"		
	40	2'-0", cir.	"		
	16	2'-10"x4'-3"	"		
	1,294	24"	Clay	3,889.98	
					$18,504.87
Prospect st., Chestnut street, easterly................	218	18"	"		623.53
	199	15"	"		
	196	12"	"		
Pynchon st..................	950	2'-0"x3'-0'	Brick		3,108.02
Quebec st., I. O., Lyons st., easterly.................	209	15"	Clay		402.82
Queen st., Walnut to Hancock st.	634	12"	Cem.		634.22
Quincy st., Oak to Stebbins st.	860	12"	"	619.96	
Hancock to Stebbins st.....	522	12"	"	549.58	
Hancock to Eastern ave....	637	18"	"	1,703.99	
	765	15"	"		
Colton to Eastern ave.....	208	10"	Clay	156.87	
					3,030.40
Railroad st., Water st., easterly	351	12"	"		490.75
Randolph street, Maplewood terrace, easterly.........	250	12"	"		....
	251	10"	"		
Raymond ave., Carew street, northerly...............	277	10"	"		217.32
Reed st., State st., southerly..	219	12"	"		110.45
	309	10"	"		
Revere st., White st., southerly.	750	20"	"		23.32
	250	10"	"		
	209	8"	"		
Richelieu court, Adams st., southerly...............	160	12"	"		474.21
	260	10"	"		
Richelieu place, Richelieu court easterly	100	8"	"		....
Ridgewood place, Mulberry st., northerly...............	400	12"	"		29.46
Ridgewood terrace, Mulberry st., westerly............	226	10"	"		....
Rimmon ave., Green lane to Weaver Ramble........	859	18"	"		....
Ringgold st., North to Chestnut st.................	117	18"	Cem.		681.78
	632	12"	"		
Ripley ave., St. James avenue, southerly...............	230	10"	"		163.48
Riverview st., Riverview terrace, northerly	63	10"	Clay		....
Forest Park ave., southerly.	299	10"	"		217.39

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Riverview terrace, Fort Pleasant ave., easterly	298	15″	Clay		....
	322	12″	"		
	105	10″	"		
Roseland st., Plainfield street, westerly	350	18″	"		$1,352.31
	350	15″	"		
	173	12″	"		
Rowland ave., Conn. river to North Main st., including 630′ in Douglas st.	579	5′-3″, cir.	Brick		32,489.36
	51	1′-8″x2′-6″	"		
	1,247	6′-6″, cir.	"		
	1,330	6′-0″, cir.	"		
Rutland ave., Wilbraham road to State st	199	8″	Clay		147.15
Rutledge avenue, Main street, easterly	574	24″	"		49.43
Sachem st., Dickinson st., northerly	330	10″	"		345.31
Salem st., Pearl st., south and east	283	18″	Cem.		804.72
	99	15″	"		
	290	12″	"		
Sanford st	536	3′-2″x4′-9″	Brick		4,014.47
Sargeant st., Fulton to Main (cost shown under Clinton street)	920	4′-6″x6′-9″	"		....
School st., Union to Mulberry street	549	15″	Clay	$620.95	
Union st., northerly	262	10″	"	204.00	
					824.95
Seventh st., Fulton to Main st.	830	12″	Cem.		661.03
Sewer in avenue (see private ways).					
Sewer (see private ways).					
Sheldon st., Becket to North Main st	42	10″	Clay		43.87
Sharon st., Garden brook to Main st	360	15″	Cem.	762.77	
Garden brook, easterly	601	18″	"	1,211.18	
	463	12″	"		
					$1,973.95
Shattuck ave., Maynard ave. to Willard ave	200	10″	Clay		....
	143	8″	"		
Willard ave., easterly	50	8″	"		....

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Sherman st., Bay to Clarendon st.	175	12″	Cem.	$571.12	
Bay to McKnight st.......	443	12″	"		
State to McKnight st.....	301	18″	Clay	1,314.14	
	301	15″	"		
	544	12″	"		
				———	$1,885.26
Silver st., Armory st., easterly.	302	15″	"		470.93
	297	12″	"		
Smith st., Knox to Dorne st..	200	12″	Cem.		27.26
Sorrento ave., Sumner avenue, northerly	82	6″	Clay		7.49
Spring st., south from Lyman st.	281	15″	Cem.	2,479.25	
	130	12″	"		
Worthington to State st....	470	18″	"		
	640	15″	"		
	644	12″	"		
Worthington st., northerly..	132	12″	Clay	87.28	
Worthington to Summer st.	183	5′-0″	Brick	1,498.24	
	49	4′-3″x6′-0″	"		
				———	4,064.77
Springfield st., Atwater terrace, northerly............	892	20″	Clay	1,988.87	
	209	18″	"		
	236	8″	"	....	
				———	1,988.87
Springfield st., and Glenwood (see private ways.)					
Spruce street, Central street, northerly...............	600	12″	Cem.		558.03
Spruceland avenue, Magnolia terrace, westerly.........	67	8″	Clay	....	
Beechwood ave., easterly...	242	8″	"	136.48	
Beechwood ave., westerly..	648	8″	"	....	
continued to Long Hill st...	93	8″	"	153.52	
				———	290.00
Stafford street, Armory street, westerly	402	10″	"		239.85
State st., Water st., westerly..	152	12″	Cem.	45.27	
	91	12″	"	71.19	
Water st. to Main st.......	907	18″	"	1,167.64	
Main to Dwight st........	636	18″	"	1,433.50	
Dwight st. to High school..	29	2′-8″x4′-0″	Brick	4,897.66	
	265	2′-2″x3′-3″	"		
	417	2′-0″x3′-0″	"		
At High school, connecting old with new...........	54	24″	Clay	161.88	

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
High school to Oak street.	2,682	2'-0" cir.	Brick	$4,099.53	
near top of hill............	505	18"	Cem.	708.18	
Repairing front of Benton park...................	130	12"	Clay	212.78	
Oak to Buckingham st.....	2,110	18"	Cem.	2,590.03	
Hancock to Sherman st....	1,147	3'-4"x5'-0"	Brick	13,555.85	
Sherman to Chapin st.....	492	3'-0"x4'-6"	"		
Chapin st. to Andrew st...	726	3'-0"x4'-6"	"	10,793.96	
Andrew st. to Oak Grove ave.....................	937	2'-10"x4'-3"	"		
east from Oak Grove ave. to Courtland st............	548	2'-4"x3'-6"	"	5,042.79	
	283	2'-2"x3'-3"	"		
	352	2'-0"x3'-0"	"		
Courtland st. to almshouse..	355	24"	Clay	1,897.59	
	112	18"	"		
	1,547	12"	"		
				———	$46,677.85
Stearns square (west roadway), Bridge street, northerly...	172	12"	"		205.83
Stearns square (east roadway), Bridge street, northerly..	167	8"	"		67.00
Stebbins street, Union street,	506	12"	Cem.	467.11	
northerly...............	67	10"	Clay	37.29	
				———	504.40
Sterns terrace, Central street, northerly	393	12"	"		605.10
St. James avenue, Bay street to Ripley ave	681	12"	Cem.	565.86	
Florida st. to Ripley ave...	469	12"	"	500.89	
Florida st., northerly.......	417	18"	"	1,073.90	
	300	12"	"		
Clarendon st. to Westminster street.................	248	15"	"	404.60	
Clarendon st., northerly....	138	8"	Clay	64.82	
Dartmouth st. to Harvard st.	385	2'-0"x3'-0"	Brick	2,738.53	
Harvard to Princeton st....	528	24"	Clay	1,587.44	
Princeton st., northerly....	308	18"	"	965.55	
	249	15"	"		
	57	12"	"		
				———	7,901.59
Stockbridge street, Main street, easterly................	777	18"	Cem.		1,084.57
Sullivan street, Armory street, easterly	395	12"	Clay		....
Summer st., Spring to Armory street................	44	4'- 3"x6'-0"	Brick		24,048.88
	1,344	4'- 2"x6'-3"	"		
	1,093	2'-10"x4'-3"	"		
	750	3'- 8"x5'-6"	"		

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Sumner ave., Fort Pleasant ave. to Long Hill st.	448	12"	Clay	$815.24	
	358	10"	"		
Fort Pleasant ave. to Randolph st.	673	2'- 0"x3'-0"	Brick	7,968.46	
Randolph st. to Jackson st.	360	1'-10"x2'-9"	"		
Jackson st. to Forest Park av.	360	1'- 8"x2'-6"	"		
Forest Park ave. to Greenleaf st.	367	1'- 6"x2'-3"	"		
Greenleaf st. to Belmont ave.	355	20"	Clay	2,915.88	
	851	18"	"		
	736	15"	"		
	272	12"	"		
	426	10"	"		
Belmont ave., easterly	100	8"	"	37.49	
Dickinson st. to White st.	2,219	2'-8"x 4'-0"	Brick	11,531.37	
White st., easterly	565	2'-2"x 3'-3"	"	2,391 46	
					$25,659.90
Symonds ave., Worthington st. to Bridge st. (includes cost of Bond place)	300	15"	Cem.		696.89
Talcott ave., Fisk ave. to Plainfield st.	362	15"	Clay		549.57
	316	12"	"		
Taylor st., Main to Chestnut st.	650	15"	Cem.	1,847.50	
	341	12"	"		
	248	12"	Clay	255.73	
					1,603.23
Temple st., Maple st., easterly.	194	15"	"	236.73	
outlet into High school sewer	169	15"	"	171.71	
					408.44
Tenth street, Garden brook, easterly	300	18"	"		1,256.39
	302	15"	"		
	421	12"	"		
	4	8"	"		
Terrence st., Union to State st.	374	12"	"	565.26	
	318	10"	"		
	48	10"	Cem.	34.02	
					599.28
Thomas st., Birnie ave., easterly	451	10"	Clay		338.41
Thompson st., Worthington st., southerly	603	12"	Cem.	638.27	
St. James ave. to Bay st.	703	15"	"	749.22	
State to Bay st.	852	12"	"	653.12	
					2,040.61
Tracy avenue, Franklin street, southerly	14	10"	Clay	15.48	
	262	10"	"	......	15.48
Tyler st., Oak to Hancock st.	717	15"	Cem.	1,165.68	
	663	12"	"		
Hancock to Eastern ave.	601	18"	"	778.27	
	795	15"	"	644.31	

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Eastern ave., easterly.....	251	10″	Cem.	$139.49	
					$2,727.75
Union st., submerged outlet.	165	24″	Wood	1,604.45	
	48	24″	C. Iron	391.23	
Conn. river to Oak st......	2,024	3′-4″x5′-0″	Brick	27,384.14	
	302	2′-6″x3′-6″	"		
	2,688	2′-0″x3′-0″	"		
	848	1′-8″x2′-6″	"		
Oak to Orleans st..........	404	15″	Cem.	467.96	
Hancock to Stebbins st.....	261	2′-0″x3′-0″	Brick	2,307.33	
	335	1′-10″x2′-9″	"		
Stebbins to Orleans st......	428	20″	Clay	737.72	
Hancock to Eastern ave....	600	18″	Cem.	1,413.45	
	800	15″	"		
Eastern ave., easterly......	248	10″	Clay	152.56	
					34,458.84
Vassar street, Harvard street, northerly	550	12″	Cem.		153.37
Ventura street, Sumner avenue, northerly	351	10″	Clay		289.51
Vernon st., Water st., easterly.	639	15″	Cem.	795.08	
Main st., westerly	216	12″	"	310.68	
					1,105.76
Vine st., Main to Fulton st...	697	12″	"		602.45
Vinton st., Liberty to Franklin st	357	12″	Clay	357.63	
	262	10″	"	252.13	
					609.76
Walden st., Dickinson street, easterly	166	8″	"		94.93
Walnut st., south from State st.	69	1′-6″x1′-8″	Brick	85.23	
north from Charter ave	292	10″	Clay	418.30	
Union to Charter ave......	279	12″	Cem.	482.50	
Union to Oak st...........	558	12″	Clay	792.64	
	17	12″	Cem.	20.50	
Cedar to Pine st...........	1,142	2′-0″x3′-0″	Brick	4,956.57	
Pine to Oak st............	272	18″	Cem.	410.04	
Hancock to Cedar st.......	784	15″	"	1,269.67	
Hancock st., southerly.....	180	12″	"		
North from Manhattan st....	249	10″	Clay	212.35	
Florence st., northerly.....	53	8″	Cem.	27.12	
Hickory to Florence st.....	1,026	12″	Clay	992.67	
					9,667.59
Walter st., Birnie ave., easterly.	285	12″	Cem.		14.86
Waltham avenue, Wilbraham road, southerly..........	911	12″	Clay		928.30
Wareham st., Grand avenue, southerly...............	419	10″	"		21.24

SEWER CONSTRUCTION.—Continued.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Warner place, Fort Pleasant ave. to Long Hill st.	508	12″	Clay	....	
	198	10″	"		
	89	10″	"	$51.88	
					$51.88
Warriner ave., Locust street, easterly	448	12″	"		399.54
Washburn st., Conn. river to B. & M. R. R.	1,758	7′-0″, cir.	Brick		21,678.46
Washington ave, Long Hill st. to Magnolia ter.	304	2′- 4″x3′-6″	"		5,032.68
	823	2′- 2″x3′-3″	"		
Wason ave., Conn. river to Plainfield st.	451	3′-10″x5′-9″	"		16,610.72
Plainfield st. to Fisk ave.	1,051	3′- 4″x5′-0″	"		
Fisk ave. to Birnie ave.	634	3′- 2″x4′-9″	"		
Birnie ave. to North Main st.	247	2′- 0″x3′-0″	"		
Water st., Gardner to Loring st.	474	1′-10″x2′-9″	"	1,182.58	
Loring st., northerly	345	12″	Cem.	237.38	
Union to Margaret st.	721	2′- 0″x3′-0″	Brick	2,284.34	
Union st., northerly	868	18″	Cem.		
Elm to State st	275	18″	"	508.75	
Elm to Pynchon st	43	2′- 0″x3′-0″	Brick	198.00	
	498	2′- 6″x3′-6″	"	2,949.29	
Pynchon st., northerly	257	18″	Cem.	404.44	
	329	15″	"	460.60	
	61	12″	"	85.40	
Worthington st., southerly	209	10″	Clay	333.54	
Worthington to Hampden st.	327	15″	Cem.	457.80	
Hampden to Railroad street	321	12″	Clay	638.58	
					9,740.70
Waverly street, North Main to Chestnut st	473	20″	"		1,197.09
	487	10″	"		
Weaver Ramble, Rimmon ave., westerly and northerly	480	12″	"		....
Webster st., Liberty to Franklin st	601	12″	"		395.54
Welcome place, Bay street, northerly	238	8″	"		....
Wellesley st., Cornell street, easterly	373	12″	Cem.		94.76
Wellington avenue, Wilbraham road, southerly	287	15″	Clay		23.58
	244	12″	"		
	291	10″	"		
Wendell ave., Main st., easterly	458	15″	"		....
Westernview st., Forest Park ave., easterly	468	12″	"		511.16
	138	10″	"		

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Westford avenue, Wilbraham road, southerly	300	15″	Clay	$676.23	
	300	12″	"		
	350	10″	"		
* Westford circle to King st.	541	12″	"	454.36	
					$1,130.59
Westminster st., Bay to State st.	300	15″	"	705.11	
	300	12″	"		
	201	10″	"		
St. James ave., southerly	773	12″	Cem.	700.02	
					1,405.13
White st., Allen to Orange st.	747	24″	Clay	1,717.86	
	674	20″	"	1,490.97	
	274	18″	"		
Orange st. to Dawson ave.	388	15″	"	389.27	
	292	15″	"	275.73	
Gordon st. to Dawson ave.	192	10″	"	187.69	
Gordon st. to south line of school lot	690	12″	"	671.32	
					4,732.84
Whitney avenue, Water street, westerly	450	12″	Cem.		257.32
Whittier ave., Sumner ave. to Longfellow terrace	301	18″	Clay		1,261.63
	299	15″	"		
	301	12″	"		
	221	10″	"		
Wilbraham avenue, Wilbraham road, southerly	1,125	12″	"	1,020.78	
Alden st. to Beverly st.	999	10″	"	1,121.36	
	1,180	8″	"		
					2,142.14
Wilbraham road, State street, easterly	248	12″	Cem.	157.79	
State st. to Northampton ave.	1,451	2′-0″x3′-0″	Brick	6,198.76	
Northampton ave. to Bristol street	472	2′-6″x3′-9″	"	8,970.16	
	476	2′-4″x3′-6″	"		
	478	2′-2″x3′-3″	"		
	473	2′-0″x3′-0″	"		
	254	1′-10″x2′-9″	"		
	256	1′-8″x2′-6″	"		
Bristol st., easterly	263	20″	Clay	859.35	
	405	12″	"		
					16,186.06
Wilcox st., Water st., easterly	548	15″	Cem.	891.89	
	327	12″	"		
Water st., westerly	463	12″	"	205.76	
					1,097.65

---

*Sanitary sewer.

SEWER CONSTRUCTION.—CONTINUED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Willard avenue, State street, northerly	282	18″	Clay	$785.26	
	300	15″	"		
	241	12″	"		
Shattuck ave., southerly	215	8″	"	....	
					$785.26
William st., Water to Main st.	908	12″	Cem.	952.89	
Main to Dale st.	351	12″	Clay	906.35	
	288	10″	"		
Water st., westerly	76	15″	Cem.	459.79	
	425	12″	"		
					2,319.03
Willow st., Cross to State st.	413	12″	Clay	791.42	
Cross to Park st.	265	12″	"	378.17	
Union to Park st.	216	18″	Cem.	325.32	
Union st., to Hubbard ave.	219	10″	Clay	204.39	
					1,699.30
Wilmont st., Dickinson st. to Revere st	849	18″	"		1,557.40
	450	15″	"		
	386	12″	"		
Winchester st.	424	12″	"		357.96
Windsor st., Knox st., westerly.	80	15″	Cem.		....
	485	10″	"		
Winthrop st., Main st., easterly.	52	18″	"		220.81
	141	15″	"		
	520	2′-6″x3′-6″	Stone		....
Wolcott street, Armory street, westerly	220	10″	Clay		....
Woodside ter., Belmont ave., northerly	451	10″	"	321.97	
Forest Park ave., northerly	307	10″	"	....	
					321.97
Worcester ave., Plainfield to Birnie ave	1,486	15″	Cem.		53.14
Worcester st., I. O., Myrtle to Chestnut st	4	24″	Clay	945.80	
	290	20″	"		
	382	2′-0″x3′-0″	Brick	1,283.00	
Chestnut to Holly street	670	1′-10″x2′-9″	"	2,398.09	
Oak st., easterly	275	12″	Clay	519.07	
	212	10″	"		
Pine st., easterly	546	20″	"	768.42	
	224	18″	"	344.66	
					6,259.04
Worthington st., submerged outlet	194	24″	Wood	1,883.04	
	22	24″	C. Iron	176.25	
Conn. river to Main st.	1,038	5′-7″x7′-0″	Brick	33,410.12	
Main to Dwight st.	821	5′-4″x7′-0″	"		
Dwight to Garden brook	566	4′-0″x6′-0″	"		

SEWER CONSTRUCTION.—CONCLUDED.

NAME OF SEWER.	Length in Feet.	Size.	Material.	Cost.	
Garden brook to Spring st.	738	4'-3"	Brick	$4,361.35	
Spring st., branch north	35	5'-0"	"		
Spring st., branch south	47	2'-0"x3'-0"	"		
Spring street, easterly	40	18"	Cem.	614.35	
	242	15"	"		
	251	12"	"		
Autumn st., westerly	113	12"	"	118.78	
near Sacketts ave.	145	10"	"	111.47	
West brook, easterly	329	15"	Clay	1,110.54	
	217	12"	"		
West brook to Autumn st.	231	15"	"	727.56	
Sacketts ave., westerly	98	12"	"	207.28	
Sacketts ave. to Kibbe ave.	337	12"	Cem.	335.57	
Kibbe ave. to Federal st.	794	15"	Clay	826.90	
Kibbe hollow, westerly to Magazine street	167	18"	"	381.28	
near Magazine to Bowdoin st.	248	2'-8"x4'-0"	Brick	20,646.21	
	354	2'-1"x3'-1½"	"		
Bowdoin st. to St. James ave.	359	3'-4"x7'-2"	"		
	1,307	3'-4"x6'-9"	"		
				———	$64,910.50
Yale st., Dartmouth to Princeton st.	350	24"	Clay	1,770.13	
	359	18"	"		
	233	15"	"		
Princeton st., northerly	712	12"	"	452.46	
				———	2,222.59
York st	1,203	7'-0", cir.	Brick		13,912.27
Total	562,577				$1,347,143.94

NOTE.—Sewers constructed by the city on private land or ways are indexed under Private ways.

RECAPITULATION BY SIZES.

DESCRIPTION.	Length in Feet.	Size.	Material.
Elliptical shaped	1,038	5'- 7"x7'- 0"	Brick and cem. mortar.
" "	821	5'- 4"x7'- 0"	" " "
" "	1,095	4'-10"x7'- 3"	" " "
" "	1,949	4'- 8"x7'- 0"	" " "
" "	1,170	4'- 6"x6'- 9"	" " "
" "	1,040	4'- 4"x6'- 6"	" " "
" "	2,340	4'- 2"x6'- 3"	" " "
" "	1,746	3'- 8"x5'- 6"	" " "
" "	830	3'- 4"x5'- 0"	" " "
" "	536	3'- 2"x4'- 9"	" " "
" "	819	3'- 0"x4'- 6"	" " "
" "	1,093	2'-10"x4'- 3"	" " "
" "	2,506	2'- 8"x4'- 0"	" " "
" "	5,778	2'- 2"x3'- 3"	" " "
" "	417	2'- 0"x3'- 0"	" " "
Egg shaped	566	4'- 0"x6'- 0"	" " "
" "	1,131	3'-10"x5'- 9"	" " "
" "	1,074	3'- 8"x5'- 6"	" " "
" "	3,512	3'- 6"x5'- 3"	" " "
" "	359	3'- 4"x7'- 2"	" " "
" "	1,307	3'- 4"x6'- 9"	" " "
" "	9,586	3'- 4"x5'- 0"	" " "
" "	1,056	3'- 2"x4'- 9"	" " "
" "	2,877	3'- 0"x4'- 6"	" " "
" "	953	2'-10"x4'- 3"	" " "
" "	364	2'- 9"x4'- 1½"	" " "
" "	2,516	2'- 8"x4'- 0"	" " "
" "	4,818	2'- 6"x3'- 9"	" " "
" "	800	2'- 6"x3'- 6"	" " "
" "	150	2'- 5"x3'- 7½"	" " "
" "	8,636	2'- 4"x3'- 6"	" " "
" "	8,688	2'- 2"x3'- 3"	" " "
" "	603	2'- 1"x3'- 1½"	" " "
" "	21,973	2'- 0"x3'- 0"	" " "
" "	4,921	1'-10"x2'- 9"	" " "
" "	3,980	1'- 8"x2'- 6"	" " "
" "	917	1'- 6"x2'- 3"	" " "
" "	669	1'- 4"x2'- 0"	" " "
Circular	3,017	7'-0"	" " "
"	3,019	6'-6"	" " "
"	1,330	6'-0"	" " "
"	1,743	5'-9"	" " "
"	3,842	5'-6"	" " "
"	949	5'-3"	" " "
"	2,257	5'-0"	" " "
"	3,274	4'-7½"	" " "
"	1,762	4'-6"	" " "
"	3,362	4'-3"	" " "
"	952	4'-1"	" " "

RECAPITULATION BY SIZES.—CONCLUDED.

DESCRIPTION.	Length in Feet.	Size.	Material.
Circular	2,399	4′-0″	Brick and cem. mortar.
“	385	3′-9″	“ “ “
“	677	3′-6″	“ “ “
“	2,209	3′-3″	“ “ “
“	2,549	3′-0″	“ “ “
“	2,072	2′-8″	“ “ “
“	3,202	2′ 0″	“ “ “
“	190	1′-6″	“ “ “
“	24,915	24″	Clay pipe.
“	18,042	20″	“ “
“	28,949	18″	“ “
“	41,977	15″	“ “
“	89,965	12″	“ “
“	66,445	10″	“ “
“	14,133	8″	“ “
“	369	6″	“ “
“	23,306	18″	Cement pipe.
“	39,044	15″	“ “
“	62,712	12″	“ “
“	4,428	10″	“ “
“	822	8″	“ “
“	120	24″	Cast-iron pipe.
“	28	18″	“ “
“	726	24″	Wood pipe.
“	290	18″	“ “
Segmental	93	6′- 0″x4′- 3″	Brick and cem. mortar.
“	60	5′- 0″x2′- 1″	Concrete.
Miscellaneous shapes.......	2,329		Stone, brick, and mortar.
Total..................	562,577		

Classified as follows: —

	Feet.	Miles.
Brick and cement mortar, ...	143,917	27.26
Miscellaneous materials, ...	3,553	.67
Clay pipe, ...	284,795	53.93
Cement pipe, ...	130,312	24.68
Total, ...	562,577	106.54

CITY ENGINEER.

REPORT OF THE

CITY ENGINEER.

City of Springfield, Mass., December 31, 1906.

To the City Council:—

The report of the operations of the Engineering Department for the fiscal year ending December 10, 1906, is herewith respectfully submitted.

FINANCIAL STATEMENT.

RECEIPTS.

Annual appropriation for the year 1906,	$10,000 00	
Transferred from Account of Contingencies,	700 00	
Receipts from other city departments,	2,925 90	
		$13,625 90

EXPENDITURES.

Salaries of City Engineer and assistants,	$11,193 75	
Office rent and lighting,	564 08	
Drawing materials, stationery, and general supplies,	453 03	
Car fares, automobile service, and sundry office expenses,	1,206 90	
		$13,417 76
Balance unexpended,		$208 14

DESCRIPTION OF EXPENDITURES.

ENGINEERING DEPARTMENT.

For all services performed on account of matters referred to the Board of Public Works by the City Council relating to the laying out or alteration of streets, sidewalks, sewers, and parks; for surveys and levels, plans and profiles, estimates of cost, releases from damages, reports to the City Council, and general correspondence relating to matters referred to the Board, and all clerical work performed relating to public hearings and all meetings of the Board; measuring and assigning house numbers, work upon house number books and records and making new plans; furnishing street lines and grades to individuals for buildings, grading, fencing, and sidewalk construction; surveys, estimates, and all general services performed for the various committees of the City Council; general map, plan, and profile drawing of streets, sewers, and public property for office records and for future reference; measuring and recording all sewer connections for house drains, and furnishing lines and grades; preparation of plans for the City Solicitor's use and attendance at court; indexing plans and other records; photographing and blue-printing, examination of deed records, setting of street monuments, and all other services not charged to other city departments, the sum of $8,287.63

HIGHWAY DEPARTMENT.

For all services performed on account of and charged to the street work appropriation; estimates and plans, lines and grades for paving, macadam and gravel, inspection of contract work, final measurements, and all other incidental .work, the sum of $519.37

SIDEWALK AND CURBING DEPARTMENT.

For all services performed for the general sidewalk and curbing appropriation; lines and grades for laying out and construction, measurements for assessments, inspection of coal-tar concrete sidewalks and all work incidental thereto, the sum of $471.09

SEWER DEPARTMENT.

For all services performed on account of the general sewer appropriations; plans, estimates, laying out of work and general supervision of construction details, and all other incidental work, the sum of $312.84

WATER DEPARTMENT.

For all services performed for the Water Department; record plans of water mains, gates and hydrants; running street lines for laying new mains, and all incidental work, the sum of $430.22

ASSESSORS' DEPARTMENT.

Plans and surveys and examination of deed records, the sum of $1,000.00.

PARK DEPARTMENT.

For all services performed for the Park Department; surveys and plans and laying out work, the sum of $6.50

FORESTRY DEPARTMENT.

For services performed for the Forestry Department; looking up distances for street guide boards, photographing for prosecution of smoke nuisance cases, the sum of $21.27

TECHNICAL HIGH SCHOOL BUILDING ACCOUNT.

For all services performed on account of the Technical High school building; surveys for setting stone monuments and staking out walks, the sum of $20.75

ARMORY STREET SCHOOLHOUSE ADDITION ACCOUNT.

For services performed on account of the Armory Street schoolhouse addition; giving lines and levels and laying out water connection, the sum of $4.12

HOWARD STREET SCHOOLHOUSE ACCOUNT.

For all services performed on account of the Howard Street school building; survey of lot; setting stone bounds; lines and grades for walks, the sum of $19.30

CHESTNUT STREET SCHOOLHOUSE ADDITION ACCOUNT.

For all services performed on account of the Chestnut Street schoolhouse addition; cross-sectioning for grading, the sum of $6.76

Receipts from sale of city maps, etc., $33.25

WATER STREET EXTENSION ACCOUNT.

Locating city property, $6.53

SPRINGFIELD STREET RAILWAY COMPANY.

Giving grades for relaying tracks on Central, Walnut and North Main streets, the sum of $60.07

MUNICIPAL BUILDING COMMISSION.

Plans for proposed new City Hall site, the sum of $19.22

FOURTH OF JULY FUND.

Staking out quarter mile track for Fourth of July athletic sports, the sum of $2.81

BOARD OF HEALTH DEPARTMENT.

Surveys and plan for change of boundary lines, $13.00

POLICE DEPARTMENT.

Measuring distances for detecting speed of automobiles, the sum of $2.62

LAW DEPARTMENT.

Making plans and photographs for use in damage cases against the city, the sum of $4.50

J. STEVENS ARMS AND TOOL COMPANY.

Survey and plans for relocation of Parker street and Wilbraham Road, the sum of $17.90

BOARD OF PUBLIC WORKS.

There have been numerous matters referred to the Board by the City Council, for investigation and report during the year, that have required the expenditure of considerable time and study by the Engineering Department, the more important of which are described in the following:—

BIRNIE AVENUE EXTENSION OVER ROUND HILL.

The Board and the City Engineer have devoted some time to the consideration and study of this project, but as yet no satisfactory conclusion has been reached that the Board considered wise to recommend to the City Council for adoption. It has been decided that there is no feasible plan for the occupation of the Boston and Maine railroad location for a portion of this extension, the railroad officials having placed such conditions upon the release of the land, that the city is debarred from further attempt in that direction. If satisfactory terms could be reached with the railroad company, a better and more uniform grade could be secured than would be obtained by a location directly over the top of the hill including a portion of the private way running from Arch to Plainfield street; the latter location, however, encroaches more upon the private estates on top of Round Hill, lying on the easterly side of the private way.

In order to avoid excessive cutting of the top of the hill and consequent serious injury to these estates, the grade of the present private way has been followed in later studies, and only a slight cutting of the top of the hill contemplated. This plan, however, involves the use of a seven and one half per cent grade getting up from Arch street to the top of the hill for a distance of about four hundred and fifty feet, whereas the grade for the location following around upon the side of the hill and partly upon the railroad location, is but about three and one half per cent.

The Board have been unable as yet to reach a satisfactory understanding with the owners of the private estates in the matter of land and building damages. It will probably be necessary to remove one of the residences on the hill. By constructing retaining walls for a portion of the distance the other buildings would not be seriously affected.

It is the desire of the Board that a satisfactory conclusion may be reached in the near future with reference to this project. They recognize that it is one of the connecting links for another continuous thoroughfare running north and south that the business interests of the city fairly demand, and the necessity for which will be rapidly increased by the development of new enterprises in the Brightwood district, and the proposed extension of Water street northward under the Boston and Albany railroad to Cypress and Fulton streets.

It is unfortunate that many cities, similar in character to Springfield, must contend with a system of street locations not contemplated in a first general plan, but laid out from time to time as the business interests demand, introducing thereby excessive costs for construction and land damages, as well as grades and locations that are undesirable from the standpoint of meeting the public convenience in the best way.

ABBE AVENUE CROSSING OVER BOSTON AND MAINE RAILROAD.

The Brightwood district, with its numerous and rapidly increasing business enterprises, demands a reasonable provision for crossing over the Boston and Maine railroad without danger to life and limb. There is at present no public crossing between Plainfield street and the Chicopee line and only one street crossing, which is at grade, in a distance of one and one quarter miles.

During the year 1905 several petitions, relating to crossing the above railroad, were presented and public hearings given that were referred to the Board of Public Works.

The Board after due consideration and study determined that an overhead crossing should be provided at Abbe avenue, in order that the public safety and convenience may be reasonably provided for.

The report and recommendation of the Board provides for a single span overhead bridge of about 180 feet in length, with two inclined approaches, connecting on the west at the corner of Fisk and Rowland avenues, and on the east with Birnie avenue; the approaches to be a solid earth filling with suitable railings and macadamized roadway, and one six foot sidewalk on the northerly side. An application has been made to the County Commissioners for the necessary authority to lay out and construct this crossing.

PECOUSIC AVENUE.

It has been contemplated for many years that Pecousic avenue should be made one hundred feet in width in order to make reasonable provision for the traveling public over what is doubtless destined to be our main artery of travel connecting with the towns to the southwest of Springfield.

That portion of the avenue laid out in connection with the South End bridge grade crossing of the N. Y., N. H. & H. R. R. and extending from South street on the north, past the approach to the bridge, to a connection with South street again on the south, was made but fifty feet wide, as the cost in the main was borne by the railroad company and the commonwealth. It was decided that only a reasonable provision should be made, and that any further widening or other improvement should be made wholly at the cost of the city. A petition was presented to the City Council for the widening of the part of the avenue passing the South End bridge approach, to a width of one hundred feet, and a relocation of the part previously laid between Mill river and South street that does not properly connect with the part extending south from South street, also for an extension southerly to land of the heirs of John Leary, this point being the southerly termination of the part coming under the City Council's jurisdiction, the Board of Park Commissioners having been given authority by the City Council over that part of South street extending southerly from the South End bridge.

The above petition, which was referred to the Board of Public Works, has been recently reported upon by the said Board favorably to the petitioners.

The report provides for a continuous thoroughfare one hundred feet wide, with a concrete steel bridge over Mill river the full width of the avenue, the grading and filling to be made by the use of the ashes collected in the locality, thereby effecting a considerable saving of cost.

This avenue when laid out and graded affords a fine opportunity for the location of the electric lines that now pass over Longhill street to the towns of the south, being much more direct and avoiding the long climb over Long Hill.

The extension northerly between York and Gardner streets has been partly provided for by the purchase of several properties by the city during the last few years along the line of the proposed thoroughfare.

ARMORY STREET.

A petition, now under consideration, but not yet reported upon, has been referred to the Board for investigation and report, for a new street to run from Armory street easterly, across private property through the valley of Garden brook and between the railroads to St. James avenue. The plans prepared provide for a location northerly of and near the buildings of the Hampden Paint and Chemical Company; also a location has been considered for passing over the buildings of said company, by a bridge of two spans.

As the section lying between the railroads on the meadow bottom provides valuable manufacturing sites with manifest advantages for railroad frontage, it appears that a street must be provided connecting with Armory street to afford these manufacturing enterprises, present and prospective, a suitable outlet connecting with an existing public thoroughfare.

It would also appear that the public convenience and necessity would be further served by an extension easterly to St. James avenue, when the property in that location shall have sufficiently developed to demand such extension.

The Board of Public Works have reported during the year upon a large number of matters relating to the more usual cases of sidewalk and sewer construction and repairs. Connected with this report is a table of the streets laid out as public ways during the year; also the streets relocated, widened and discontinued.

UNION STREET WIDENING.

After considerable time spent with the owners of property affected by the proposed widening of Union street between Oak and Orleans street, agreements were finally entered into, which were considered by the Board of Public Works as reasonably satisfactory from the city's standpoint, and a favorable report was made to the City Council and an order passed thereon.

Since the passage of the order, the buildings have been set back and the objectionable jog of one rod in width has been removed. The completion of this work, which has been considered for a long term of years, constitutes a decided improvement for this locality. The street now has a uniform width of 49½ feet east of Oak street.

OLD WILBRAHAM ROAD.

For many years the question of the relocation or discontinuance of the Old Wilbraham Road has been periodically referred to the Board for consideration and report. The former boundary lines, owing to lack of precise information regarding the original survey and laying out in 1768, were very obscure and could not be precisely defined, and through infrequent use the course of the old way was nearly obliterated as shown by the rather tortuous wheel path.

The abutters were insistent that the city should restore the old boundary lines of the way in order that the real estate operations might be properly promoted. As they would not consider the discontinuance, it was finally decided to relocate the old way between Pomona avenue and White street, which was done through mutual consent of the majority of the abutters, the width having been changed from sixty-six to sixty feet.

A petition was also referred to the Board for the discontinuance of the old way between Alderman street and Pomona avenue, which was reported favorable to the request of the petitioners, and an order passed thereon by the City Council. Westerly from Alderman street, the old location has been covered by discontinuance or the layout of new streets.

Late in the year, Scott street was laid out and constructed, passing along the northerly boundary line of the new White Street school property and through land of John L. Scott, to the intersection of Alderman street and Pomona avenue, thereby affording a communication from the west and south with the new White Street school, that was greatly needed by the pupils, especially during the winter months. A tar concrete sidewalk was laid on the southerly side of Scott street, from White street to Pomona avenue, and a temporary board walk laid for winter use along the southerly side of Alderman street to Sorrento avenue.

SUMNER AVENUE BUILDING LINE.

For about three years the Board of Public Works have awaited the decision of the property owners on Sumner avenue for the establishment of a building line between Longhill street and Allen street. As a former City Solicitor advised that the city could not establish a line without liability to the abutters, the Board therefore decided that it would be unwise to recommend such a measure without obtaining the consent of the abutters through a properly drawn release. Considerable pressure has been brought to bear from time to time upon the Board to report upon the matter, but the Board could not see the way to do so, having regard for the best interests of all concerned.

The matter of securing releases having advanced to the point where it seemed that further waiting and conferences would not be attended with results, the Board decided to make a conditional report, that if the City Council deemed it wise the line should be laid out and established on both sides of the avenue, 25 feet from each side, for its entire length of 2.37 miles. In front of the Faith Church property it was recommended that the line should be ten feet from the line of the avenue. The report of the Board further provided that a space in front of the proposed new building line of twelve feet should be allowed for the usual projection of porticos and steps.

This matter is now in the hands of the City Council, which, upon special request, has recently given a hearing to parties remonstrating against the establishment of the line. The establishment of the building line has been made possible through the act of the City Council of 1896, which voted to accept and adopt the state law providing for the establishment of building lines.

BELMONT AVENUE BUILDING LINE.

A hearing was given to petitioners on the 28th of November last, for the establishment of a building line on Belmont avenue between Sumner avenue and Garfield street. The hearing developed the fact that some opposition existed and a release is now in the hands of the abutters for legal consent for the establishment of a line.

These recent acts, regarding the laying out of building lines, are the first undertaken by this city. It has been adduced that in the case of Sumner avenue, good reasons exist for the establishment of a building line, that do not obtain with other thoroughfares in the city, it being the established residential boulevard of the city and the gateway to Forest Park. The public at large, as well as the property owners, have an interest in the preservation of the goodly appearance brought about by broad expanses of well kept lawns and houses set well back, rather than obtruding themselves upon the boundary lines of the avenue.

It would seem that Sumner avenue is, of all other city thoroughfares, best adapted to such improvement and restrictions.

GENERAL WORK OF THE DEPARTMENT.

WOOD BLOCK PAVING.

The citizens of the city continuing to warmly indorse the use of the wood block and "Bitulithic" paving, the Supervisors of Highways and Bridges decided to extend the wood block pavement on Main street from Bliss street southerly to the northerly end of the vitrified brick pavement at William street; in all 1150 feet in length and covering an area of 6460 square yards. The concrete base was laid under the Hassam patent. The lower portion of trap rock after being well rolled was grouted with cement mortar, with a finishing coat on top.

A cushion coat one half an inch thick of dry mortar was used on the foundation, upon which the Creo-Resinate wood blocks, 3 inches wide, 3½ inches deep and from 6 to 10 inches long, of gum wood, were laid for a wearing surface. The blocks were well rolled with a light weight roller and the joints filled with cement mortar grout. An expansion joint of pitch was used against the curb and once in 50 feet across the street.

The proprietors of stores on Main street are well pleased with the wood pavement because of its freedom from noise, smooth and cleanly surface, as well as all-round desirable qualities for a modern pavement.

BITULITHIC PAVING.

The "Bitulithic" pavement continues to meet the commendation of the public, its surface affording nearly ideal conditions for the varied character of the demands made of a modern improved street. Its cost is low as compared with other modern pavements, owing in part to the omission of the concrete base generally used with other forms of paving.

The "Bitulithic" pavement was extended on Walnut street from King to Hancock street, on North Main street from Plainfield to Morgan street, on Hillman street from Main to Dwight street, and on Market street from Harrison avenue to State street, a total of 11,731 square yards.

As last year, the city hired of the Messrs. Warren Bros. the necessary plant for the "Bitulithic" paving, the Street Department performing the work by day's labor, at a total cost for material and labor of $2.11 per square yard.

The granite blocks removed from Main street were laid in part in Fulton street against the freight yard of the Boston and Maine railroad. The blocks were laid on a sand bed and joints filled with sand. 3,000 square yards were laid in Fulton street at a cost of $0.91 per square yard.

Railroad street was paved from the top of the grade to Water street with the granite blocks removed from Main street, laid in the same manner as the blocks laid in Fulton street. 400 square yards were laid at a cost of $0.80 per square yard.

A short stretch of Birnie avenue was paved where crossed by the numerous tracks from the car barns of the Street Railway Company. 483 square yards of Johnsonburg vitrified paving blocks were laid at a cost of $1.89 per square yard.

The amount and cost of the streets macadamized during the year are shown by a table submitted with this report.

PLAINFIELD STREET BRIDGE.

The bridge structure at the crossing of Plainfield street over the Boston and Maine railroad has been found inadequate to carry the heavy loads produced by the passage of the heavy street cars upon the double tracks over the bridge.

It has therefore been determined that the floor system should be replaced with a new set of floor beams.

This will require the removal of the entire flooring and tracks and the erection of a temporary structure over the Boston and Maine railroad tracks. An agreement has been drawn for the execution of the Street Railway Company, which has agreed to bear the cost and perform the work of replacing the floor system and performing the other work incidental thereto, and it is now expected that work will be commenced upon the structure early in the spring.

OLD TOLL BRIDGE.

One of the short spans of the Old Toll bridge over the Connecticut river was found on examination during the summer, to have a weak place in the floor with considerable settlement, caused by decayed floor beams and bottom chord; also the arch member in center of bridge between the two roadways was found partially decayed.

New floor beams were substituted for the old ones after the reinforcing of the arch member and the placing of new suspension bolts. Other repairs are now in progress upon the plank aproning to the piers, and the reinforcing of some of the timber arch footings to the long spans. The roof to the first span at the easterly end of the bridge has been covered with sheet roofing.

Observations have been made at periods upon the alignment of the northerly truss in order that any deformation might be determined. So far, no considerable change has been noted.

The loads passing over the bridge have been restricted.

during the year, and some attention must be given from time to time to the old structure, in order that the public security shall be reasonably assured.

Owing to peculiarities in design, by reason of which the usual analysis of stresses in framed structures cannot be applied with any certainty as to results, it becomes necessary to use considerable vigilance and careful oversight from time to time.

There has been considerable expression of opinion, from those perhaps not so well informed, of the entire safety of the old bridge; but the facts are, that those most intimately associated with its maintenance will feel a sense of relief when the old structure is replaced with a new bridge of modern design.

SIDEWALKS.

There has been about the usual amount of sidewalk construction and repairs performed during the year. The Street Department has executed the customary amount of work, left by owners of abutting real estate; the abutters having the carrying out of all orders for new work and repairs passed by the City Council for at least thirty days from the time of serving notice of the passage of the order. Owing to this rather promiscuous manner of constructing and repairing sidewalks, some work of more or less inferior quality must necessarily follow. There is also much controversy over the settlement of bills for work charged over to abutters, and also upon the question of the necessity for making repairs. The owners of property, especially where occupied by tenants, are strong in their opinion that only a small amount, or more frequently, no repairs at all, are necessary.

All coal tar concrete sidewalk work was performed by contract, under constant inspection by this department, Mr. Woodward E. Murkland having the contract, being paid 62c per square yard for new work, and 34c per square yard for skimcoating.

SEWERS AND DRAINS.

The work performed upon sewers during the year has been of a more or less general character, no large work having been undertaken and no work done by contract. A table is given with this report showing the work done during the year, with cost and description of materials, lengths and sizes.

Some of the unusual storms and showers contribute a larger runoff of water than was contemplated or provided for, especially for the sewers built prior to the expert examination and advice given in 1891. So little information was available prior to that date concerning the runoff from storms, that much uncertainty attends the decision upon this all important and much discussed question among engineers and sanitary experts.

Complaints are consequently quite frequently made that cellars are being more or less flooded by the set-back from street sewers that are overcharged and flowing under a head. Portions of the district south of Mill river, where sewers have been laid under the design of our last expert council, have been found inadequate, and some attention must be given in the near future to the correction of such sewers as have been found to be inadequate. The flooding of cellars is a matter of much inconvenience, and property owners are justified in making the usual complaints.

ASSESSORS' PLANS.

The work of replacing the plans lost by the destruction of the City Hall by fire, that were in the Assessors' Department, has been continued and considerable territory covered that had not been included in the plans destroyed by fire, Assistants Flint and Murphy having devoted most of their time to this work during the year. Tracings of all new plans are made and retained in the office of the City Engineer.

DEPARTMENT EMPLOYEES.

The regular force of Assistants have been employed during the year and in the main are of the same personnel as in 1905, and are comprised of the following:—

Principal Assistant Engineers, Mr. Walter A. Brown and Mr. Herbert E. Flint; Messrs. Edward G. Martin, Chas. A. L. Wright, Ernest F. Young, Chas. J. Hancock and Harold T. Murphy, instrument-men and draughtsmen. Messrs. Edward W. Burnett and Arthur P. Slocum have been employed steadily throughout the year as rodmen and draughtsmen. Also Messrs. John D. Williams and Orrin F. Cooley were employed as rodmen and draughtsmen during the early part of the year.

Miss Alice M. Hancock has performed the work of stenographer and miscellaneous clerical service since the month of April, taking the place of Miss Edith I. Gibbins, who resigned after several years of faithful and efficient service.

The opportunity is taken to acknowledge the coöperation of the various assistants employed and the courtesies extended by the other city departments and committees associated with the work.

Respectfully submitted,

CHARLES M. SLOCUM,

City Engineer.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

PAVING LAID IN 1906.

LOCATION.	Material.	Length in Feet.	Area in Sq. Yds.	Total Cost.	Cost per Sq. Yd.
Birnie ave., Hooker st. northerly	Johnsonburg paving brick	145	483	$ 913.49	$1.89
*Fulton st., Cypress to Vine st	Granite blocks	1,125	3,006	2,725.78	0.91
Hillman st., Main to Dwight st	Bitulithic	648	2,025	4,281.01	2.11
Main st., William to Bliss st	Creo-resinate gum wood blocks	1,150	6,460	21,796.45	3.37
Market st., State st. to Harrison ave	Bitulithic	968	1,887	4,337.70	2.30
North Main st., Plainfield to Morgan st	Bitulithic	730	4,485	9,338.61	2.08
*Railroad st., Water st. easterly	Granite blocks	137	415	330.35	0.80
" " Main st. westerly (relaying)	Granite blocks	379	1,124	582.16	0.52
Walnut st., Lebanon to Hancock st	Bitulithic	1,005	3,334	6,852.87	2.06
Total		6,287	23,219	$51,158.42	

* Old granite blocks laid on sand foundation; cost of blocks not included.

NOTE: The Johnsonburg vitrified clay blocks and the treated black gum blocks are laid on a five-inch Portland cement concrete foundation, the Hassam method being employed on Main street, and the old method of mixing by hand on Birnie ave. between the car tracks. The blocks were on a half-inch cement mortar cushion mixed 1 to 4 dry and the joints filled with Portland cement grout; pitch expansion joints being inserted every 50 feet and along the gutter.

The bitulithic paving consists of bitulithic mixture rolled to a depth of two inches upon a foundation of trap rock which is rolled to a depth of five inches. Paving blocks are laid on a cement concrete foundation alongside the rails of car tracks, Belgian blocks being used on North Main street and Johnsonburg pavers on Walnut street.

LENGTH AND AREA OF STREETS PAVED TO DECEMBER 10, 1906.

LOCATION.	Date of Laying.	Length in Feet.	Area in Sq. Yds.	Kind of Pavement.
Belmont ave., 400′ east of Woodside ave., to Hall st., in car tracks.	1901	1,362	1,211	Catskill block
“ “ Hall to Oakland st., in car tracks	1903	1,023	914	Metropolitan block
Birnie ave., Hooker st. northerly across car tracks	1906	145	483	Johnsonburg vitrified brick
Bridge st., Main to Dwight st	1900	688	2,525	Rock asphalt
“ “ Springfield W. W. building to Main st.	1905	493	1,746	Bitulithic
Catharine st., State to Bay st	1900	1,722	5,691	Syracuse brick
Charles st., Liberty st. to land of B. & A. railroad	1903	150	376	Granite block
Chestnut st., Worthington to Lyman st	1895	472	1,673	“ “
“ “ Lyman st. to B. & A. railroad	1889	256	1,471	“ “
“ “ B. & A. railroad to Linden st	1892	1,640	5,235	“ “
“ “ Linden to Carew st	1893	773	2,156	“ “
“ “ Carew to Allendale st	1900	1,015	3,432	Syracuse brick
“ “ Allendale st. to Jefferson ave	1905	825	2,898	Bitulithic
Court st., Court Square ave. to Main st	1897	317	1,277	Rock asphalt
“ “ “ “ “ easterly, in car tracks	1897		174	Syracuse brick
Court Square ave., Court to Elm st	1897	193	503	Rock asphalt
“ “ “ “ “ “ “ in car tracks	1897		330	Syracuse brick
Cypress st., Main to near Boylston st	1904	459	1,700	Granite block
“ “ near Boylston to Fulton st	1905	216	848	“ “
Dwight st., State to Lyman st	1896	2,324	9,905	Syracuse brick
East Court st., Main to Market st	1900	117	297	Rock asphalt
Elm st., Court Square ave. to Main st	1897	343	949	“ “
“ “ “ “ “ easterly, in car tracks	1897		330	Syracuse brick
Fort st., Water to Main st	1895	670	1,770	Granite block
Fulton st., Cypress to Vine st	1906	1,125	3,006	“ “
Hampden st., Main st. westerly	1904	212	821	Bitulithic
“ “ 212′ west of Main to Water st	1905	394	1,539	“
Harrison ave., Main to Dwight st	1896	586	2,247	Trinidad asphalt
Hillman st., Main to Dwight st	1906	648	2,025	Bitulithic

LENGTH AND AREA OF STREETS PAVED TO DECEMBER 10, 1906.—*Continued.*

LOCATION.	Date of Laying.	Length in Feet	Area in Sq. Yds.	Kind of Pavement.
Liberty st., Chestnut to Cass st.	1900	1,399	4,571	Syracuse brick
" " Cass st. to Heywood ave.	1901	1,147	3,971	" "
Lyman st., Main to Chestnut st.	1889	1,305	4,599	Granite block
Main st., Locust to Marble st.	1897	840	4,381	Syracuse brick
" " Marble to William st.	1896	1,762	8,307	" "
" " William to Bliss st.	1906	1,150	6,460	Gum wood block
" " Bliss to State st.	1893	241	1,355	Syracuse brick
" " State to Worthington st.	1904	1,899	10,798	Wood block (3" x 3½" x 8")
" " Worthington to Hampden st. (west side)	1904	382	1,183	" " " "
" " " " " " (east side)	1903		962	" " (4" x 4" x 8")
" " Hampden to Lyman st.	1903	153	775	" " " "
" " Lyman to Liberty st.	1903	484	2,780	Grooved wood block " "
" " Liberty to Sharon st. (east side)	1903	453	1,135	Wood block " "
" " " " Cypress st. (west side)	1890	(270)	880	Granite block
" " Cypress to Sharon st. (west side)	1891	(183)	580	" "
" " Sharon to near Franklin st.	1891	545	2,920	" "
" " near Franklin to Carew st. (east side)	1897	1,302	4,605	Syracuse brick
" " Emery to Sargeant st. (west side)	1901	1,447	5,449	Catskill block
" " Crossing opposite Auburn st.	1903		163	" and Metropolitan block
Maple st., High to Central st.	1904	1,563	5,665	Bitulithic
" " State to High st.	1905	593	2,530	"
Market st., State st. to Harrison ave.	1906	968	1,887	"
North Main st., Plainfield to Morgan st.	1906	730	4,485	"
Plainfield st., s. line of Sargeant to Fulton st.	1902	1,710	10,249	Syracuse brick
Railroad st., Main to Water st.	1906	516	1,539	Granite block
Sanford st., Main to Market st.	1900	102	207	Rock asphalt
State st., Main st. to City Library	1890	1,019	4,084	Granite block
" " Dwight to Chestnut st. (widened)	1896		217	" "
" " Walnut to Oak st.	1897	847	4,590	Syracuse brick

LENGTH AND AREA OF STREETS PAVED TO DECEMBER 10, 1906.—*Continued.*

LOCATION.	Date of Laying.	Length in Feet.	Area in Sq. Yds.	Kind of Pavement.
State st., Sherman st. to railroad crossing	1905	820	4,352	Bitulithic
Summer st., Autumn st. to near Kibbe ave	1895	1,259	4,029	Granite block
" " Kibbe ave. to near Federal st	1901	787	2,635	" "
Taylor st., Main to Dwight st	1904	770	2,580	Bitulithic
Walnut st., State to Union st	1899	638	2,144	Syracuse brick
" " Union st. to Pendleton ave	1900	873	3,140	" "
" " Pendleton ave. to Lebanon st	1905	1,195	3,888	Bitulithic
" " Lebanon to Hancock st	1906	1,005	3,334	"
White st., Allen to Orange st., in car tracks	1902	1,610	2,400	Syracuse brick
Worthington st., Main to Dwight st	1896	739	2,544	" "
" " Dwight st. to Fairbanks place	1901	1,060	3,869	" "
" " Fairbanks place to Spring st	1903	269	1,003	" "
" " Cook's alley to Main st	1905	404	1,418	Bitulithic
Total	....	52,154	196,145	

The wood blocks laid since 1904 are on 5″ concrete and mortar base; the granite blocks are laid in sand, the bitulithic on broken stone, and all other pavements on 6″ concrete base with 1″ sand cushion.

RECAPITULATION.

Material.	Length in Feet.	Area in Square Yards.	Material.	Length in Feet.	Area in Square Yards.
Wood block	4,521	24,093	Catskill block	2,809	6,823
Granite block	11,192	39,668	Metropolitan block	1,028	914
Syracuse brick	19,498	76,991	Bitulithic	10,620	39,168
Rock asphalt	1,760	5,758	Johnsonburg vitrified block	145	488
Trinidad asphalt	586	2,247			
			Total	52,154	196,145

STREETS MACADAMIZED IN 1906.

STREET AND LOCATION.	Length in ft.	Area in sq. yds.	Total Cost.	Cost per sq. yd.
Andrew st., Burr to Dawes st	315	1,015	$ 622.60	$0.613
Armory st., Liberty to Cleveland st	1,119	3,698	2,018.98	.546
Bliss st., Water st to N.Y., N.H. & H.R.R.	271	903	576.12	.638
Forest st., Belmont to Forest Park ave	784	2,502	1,254.31	.502*
Forest Park ave., Fort Pleasant ave. to Forest st. (22½′ wide)	1,760	4,475	2,392.13	.534
Homer st., State st. to Wilbraham road	582	1,940	1,026.18	.529
James st., Walnut to Cedar st	928	2,356	878.01	.373*
Lexington ave., Chestnut to Massasoit st.	622	1,659	1,305.21	.786
Leyfred ter., Belmont ave. northerly	625	2,102	1,717.10	.825†
Lillian st., Oak to Orleans st	387	989	536.98	.543
Maplewood ter., Fort Pleasant to Forest Park ave. (south side)	1,301	3,075	1,655.79	.538
Medford st., Birnie ave. to North Main st.	624	2,080	Laid before becoming public.	
Mountainview st., Belmont to Forest Park ave	682	2,330	1,157.61	.497*
Oakland st., Allen to Orange st	1,605	5,350	3,270.78	.612
Plainfield st., Rowland to Demond ave	1,137	3,160	2,827.40	.894†
Prospect st., Massasoit to Carew st. (incomplete)	817	2,996	1,012.06	.338*
Quincy st., Hancock st. to Eastern ave	1,345	3,902	1,807.87	.463
Sumner ave., Lenox st. easterly across the X	484	4,254	2,945.48	.692
Union st., Oak st. easterly (widening)	(163)	369	157.74	.428
Waltham ave., Wilbraham road to Wilbraham ave	985	2,628	1,245.73	.474
Warwick st., Heywood st. easterly	811	2,703	1,619.49	.595
Worcester st., I. O., Oak st. to Fiberloid factory (18′ wide)	4,494	8,988	6.041.31	.672
Totals	21,678	63,474	$36,068.88	

* A part of the trap rock used was obtained from other streets. Cost of such rock is not included.

† Includes cost of cinder foundation.

STREETS ACCEPTED AS PUBLIC WAYS DURING THE YEAR ENDING DECEMBER 10, 1906.

NAME AND LOCATION.	Length in Feet.	Width in Feet.
Abbe ave., Plainfield st. westerly	925	50
Alderman st., Dickinson to Pomona st	1,330	60
Berkshire st., I. O., Oak st. easterly	325	55
Birnie ave., Arch to Thomas st	1,965	50
Cortland st., State st. northerly	650	50
Dukes st., I. O., Berkshire to Holly st	400	60
Fiberloid st., I. O., Berkshire to Worcester st.	2,300	60
Grenada ter., Dickinson st. to Pomona st	1,097	85
Hampden st., I. O., Chestnut to Holly st	600	60
Holly st., I. O., Berkshire to Worcester st	1,045	60
Marion st., Pease to McKnight st	520	50
Medford st., North Main st. to Birnie ave	624	50
Melrose st., Eastern ave. westerly	580	33
Ormond st., Sumner to Belmont ave	360	50
Pease st., Bowles to Marion st	148	50
Pomona st., Sumner ave. to Alderman st	900	60
Scott st., Pomona to White st	640	50
Total	14,409	

STREETS RE-LOCATED DURING THE YEAR ENDING DECEMBER 10, 1906.

NAME AND LOCATION.	Length in Feet.	Width in Feet.
Boston road, near old Bay road	1,962	66
Bridge st., Main to Chestnut st	1,065	49+
Main st., Mill st. northerly	200	—
Mill st., Main st. easterly	245	—
Oak st., State to Walnut st	1,350	40+
Old Wilbraham road, Pomona to White st	1,230	60
Union st., widening, Oak st. easterly	163	49.5
Wilbraham road, at Sixteen-Acre mill pond	200	49.5
Total	6,415	

CLAY PIPE SEWER CONSTRUCTION FOR 1906.

STREET AND LOCATION.	Sizes in Inches.						Total Lgth. in feet.	Total cost incl. manholes and flush gates.	Cost per lin.ft.	Average depth of cut in ft.	Materials Excavated.
	24"	20"	18"	15"	12"	10"					
Abbe ave., Plainfield st. westerly...			300.4	299.8	300.5	199.9	1,100.6	$1,405.16	$1.27	10.4	Clayey loam
Avon place, Maple st. easterly......	694.6						694.6	3,359.45	4.84	12.5	Sandy loam, water
Center st., I. O., ex'n Pine to Cedar st.					348.8	299.7	648.5	644.61	.99	6.7	Coarse gravel
Clarendon st., St. James ave. to Sherman st. (relaying)..........				280.4	604.4		884.8	1,340.27	1.51	10.0	Sand
Davis court, Bridge to Harrison ave..					450.2		450.2	500.67	1.11	7.6	Filling
Essex st., I. O., Oak st. easterly....						182.8	182.8	274.93	1.50	7.5	Coarse gravel
Farnsworth st., Hamburg st. n. e'ly..		186.0					186.0	608.11	incom	plete.	Sand, water
Franklin st., ext'n to Genesee st.....					26.7		26.7	57.66	2.16	7.5	Clay
Genesee st., Franklin to Liberty st..						199.9	199.9	234.87	1.17	7.5	Clay
Grenada ter., Ventura ave. easterly..					76.4		76.4	52.72	.69	8.6	Sand
Hamburg st., Springfield st. east'ly..		367.0				235.3	602.3	1,067.20	1.77	11.0	Sand, water
King st., Westford to Wilbraham ave						427.2	427.2	321.81	.75	7.2	Sand
Main st., Mill River to Mill st.......						258.2	258.2	342.25	1.32	6.6	Sandy loam, hardpan
Maple st., ext'n s'ly to Maple st. ave					783.9		783.9	1,289.58	1.65	9.6	Sand
Market st., Sanford to Harrison ave.	(relaying)			300.4	350.3		650.7	1,197.72	1.84	10.3	Clayey loam
Park st., Main to Willow st. (relaying)	394.7						394.7	1,609.31	4.07	11.4	Clayey loam, water
Portsmouth st., Eastern ave. easterly					211.5		211.5	213.06	1.00	10.0	Sand
Quebec st., I. O., Lyons st. easterly				209.0			209.0	402.82	1.92	9.5	Sand
Sachem st., Dickinson st. northeas'ly						330.2	330.2	345.31	1.04	10.5	Sand
Stebbins st., extension northerly....						67.0	67.0	37.29	.55	5.0	Sand
Temple st., Maple st. easterly......				154.4			154.4	201.94	1.30	11.0	Sand
Waltham ave., extension southerly..					364.6		364.6	329.69	.90	7.6	Sand
Westford ave., W'f'd circ. to King st.					540.7		540.7	454.36	.84	7.4	Sand
White st., Gordon st. to Dawson ave.						192.0	192.0	187.69	.97	9.5	Sand
Whittier ave., Sumner ave. to Longfellow ter....................			301.1	298.6	301.3	220.6	1,121.6	1,261.63	1.12	8.3	Sand
William st., Main to Dale st. (relaying)					350.4	288.2	638.6	906.35	1.42	10.0	Clayey loam
Willow st., Union to Hubbard ave.	(relaying)					219.4	219.4	204.39	.90	7.2	Clayey loam
Worcester st., I.O., ext'n e'ly of Pine			223.9				223.9	344.66	1.54	7.5	Coarse gravel
Total.......................	1,089.3	553.0	825.4	1,542.6	4,709.7	3,120.4	11,840.4	$19,145.45			

NOTES.—Abbe avenue had 126 ft. of 6″ underdrain; 3 tons broken stone and 500 ft. b. m. subsheeting.

Avon place had 539 ft. of 8″ underdrain; 28 tons of broken stone and 3,000 ft. b. m. subsheeting.

Park street, 240 lin. ft. excavated 1 ft. below grade and refilled with broken stone and (1-2-4) concrete; 45 tons of broken stone and 1,000 ft. b. m. subsheeting used.

The average cost of manholes was $34.65 and of flush gates $20.95.

COST OF SEWER SYSTEM.

Total amount expended on account of Sewers and Drains to December 10, 1906:

1863-1880 inclusive	$395,342 10	1894	$37,710 58
1881	48,809 76	1895	34,126 83
1882	35,020 74	1896	59,057 20
1883	33,588 60	1897	46,675 42
1884	42,077 98	1898	59,543 29
1885	36.078 01	1899	62,674 06
1886	30,569 91	1900	155,295 45
1887	40.050 95	1901	95,564 02
1888	38,450 33	1902	55,458 59
1889	34,142 92	1903	43,353 52
1890	36,650 90	1904	45,887 13
1891	96,444 59	1905	40,094 13
1892	73.390 00	1906	41,134 24
1893	35,857 56		

Total amount to date $1,753,048 81

CONTRACT PRICES IN 1906.

The city paid $0.40 per lineal foot for 4-inch granite curbing, and $0.50 for 6-inch.

Portland cement (Atlas) cost $2.03 per bbl.

Rosendale cement (Hoffman) cost $1.26 per bbl.

Tar concrete walk was laid by contract at $0.62 per square yard; skim-coat work at $0.34 per square yard.

Trap rock cost $1.00 per ton on the N. Y., N. H. & H. R. R., and $0.80 per ton on the B. & A. R. R.

*PRECIPITATION FOR CALENDAR YEAR, 1906.

Month.	Total in inches.	Greatest Amt. in 24 hrs.	Dates.	Storms in which the Precipitation exceeded ½ inch per hour.	Max. Rate per Hour,—Inches.	Duration of Max. Rate,—Minutes.
Jan.	2.33	.59	3 & 4	May 28, 1.08 inches in 2⅚ hours	.7	20
Feb.	1.94	.77	9	June 2, .4 " " ⅙ "	3.6	7
Mar.	3.86	2.13	3 & 4	" 6, .25 " " ½ "	1.2	10
Apr.	3.44	1.63	9 & 10	" 17, 1.5 " " 1⅓ "	—	—
May	4.89	2.76	27 & 28	July 17, 1.2 " " ¾ "	1.9	20
June	4.20	2.05	16 & 17	" 30, .4 " " ½ "	1.5	10
July	4.12	1.52	17	Aug. 4, .95 " " ⅓ "	3.2	15
Aug.	3.05	1.19	4	" 11, .26 " " ⅓ "	1.	10
Sept.	3.31	.94	20 & 21	Sept. 12, .65 " " ¾ "	2.0	20
Oct.	6.15	2.79	20	" 20, .61 " " ⅚ "	1.4	20
Nov.	2.10	1.31	11 & 12	Oct. 20, 1.85 " " 2⅓ "	1.1	40
Dec.	2.98	1.24	31	" 25, 2.00 " " 2½ "	1.9	30
Total	42.37					

*Includes, rain, hail, sleet and melted snow.

Number of days in which the precipitation exceeded .01 inch,	114
Number of days during which snow fell,	22
Date of last snowfall in the spring,	April 9
Date of first snowfall in the fall,	November 18
Highest river, and date,	15.1′, April 17
Lowest river, and date,	3.0′, October 8
Annual range of river,	12.1
Mean daily height of river,	5.45
Greatest 24-hour rise, and date,	5.8′, May 29
Greatest 24-hour fall, and date,	2.2′, " 31

GENERAL STATISTICS.

City of Springfield, Mass., December 10, 1906.

Springfield is situated on the east bank of the Connecticut river, in latitude 42° 06′ north, longitude 72° 35′ west, at an elevation above sea level of from 65 to over 215 feet.

Zero of " City Base " is 27.1 feet below sea level.

State street, at corner of Main street, is 65.9 feet above sea level, or 93 feet " City Base."

State street, at corner of Walnut street, is 199.1 feet above sea level.

Sumner avenue, at corner of Belmont avenue, is 187.9 feet above sea level.

Population, special census of 1906,	75,968
Number of voters: men, 13,612; women, 367; total,	13,979
Number of polls,	21,673
School enrollment: public, 13,582; parochial, 1,935; total,	15,517
Greatest extent of city, north and south,	5.9 miles
Greatest extent of city, east and west,	8.9 miles
Connecticut river frontage,	4.65 miles
Area, including those portions covered by water, approximately,	24,661 acres

Area by wards: Ward One, 1,733.6 acres; Two, 225.7 acres; Three, 234.8 acres; Four, 413.2 acres; Five, 400.6 acres; Six, 327.4 acres; Seven, 2,197.7 acres; Eight, 19,128.3 acres.

Total park areas, 511.28 acres; Forest Park, 464.24 acres.

Area taxed, 16,185 acres; tax rate, $15.00 per $1,000.

Valuation,	Real estate,	$68,239,990	$86,505,181
	Personal,	18,265,191	

Public streets accepted to Dec. 10, 1906,	148.47 miles.	Wood block,	.86 miles
		Granite block,	2.12 miles
		*Syracuse brick,	3.70 miles
		Sheet asphalt,	.44 miles
		Other brick pavers,	.75 miles
		Bitulithic,	2.01 miles
		Macadam,	56.79 miles
		Gravel or dirt,	81.80 miles

Sidewalks laid in public streets to Dec. 10, 1906, . . 156.58 miles

---

*Does not include brick pavement in railway tracks around Court Square.

Electric railways (double track counted twice),		51.65 miles
Steam railroads,	Four tracks, about	4.5 miles
	Double tracks, about	7. miles
	Single track, about	11. miles
Water mains,		156.84 miles
Gas mains,		113.74 miles
Sewers, 106.68 miles,	Brick sewers,	27.31 miles
	Vitrified clay pipe,	53.92 miles
	Cement pipe,	24.73 miles
	Brick and stone,	.48 miles
	Wood pipe,	.20 miles
	Cast iron,	.03 miles
	Concrete syphon,	.01 miles

Street lights, arc,	1,008	Engine houses,	12
Street lights, incandescent,	62	Steam fire engines,	6
Houses,	11,684	Spare engines,	1
Schoolhouses,	34	Chemical engine and hose wagons,	13
Churches,	52	Ladder trucks,	3
Post offices,	4	Aerial trucks,	2
Police stations,	2	Water towers,	1
Railroad stations,	7	Motor auxiliary,	1

CITY EXPENDITURES.

City engineer's department,			$13,351.76
Fire department,			144,834.26
Forestry,			12,582.18
Street department,	Maintenance,	$117,243.99	229,333.04
	Paving,	50,574.66	
	Macadam and gravel,	36,420.19	
	Sidewalks and curbing,	25,094.20	
Sewer department,			38,980.02
Police department,			100,862.30
Public parks,			37,044.21
Street lighting department,			80,265.57
Water department,			185,914.58
School department,			310,433.29
Pauper department,			46,464.44
Scavenger department,			15,691.83
Collection of ashes,			22,853.56

OVERSEERS OF THE POOR.

BOARD OF

OVERSEERS OF THE POOR

FOR 1906.

Hon. FRANCKE W. DICKINSON, *Chairman.*

EDWIN S. STACY,	*Term expires April 1, 1908.*
CHARLES C. SMITH,	*Term expires April 1, 1907.*
ARTHUR A. CALL,	*Term expires April 1, 1909.*
JOSEPH N. BOYER, Jr.,	*Term expires April 1, 1909.*

EDWARD I. WHITE,	*Agent of the Board.*
JENNIE S. LOMBARD,	*Clerk of the Board.*
JOSEPH N. BOYER, Jr.,	*City Physician.*
LYMAN W. SEXTON,	*Master of the Almshouse.*

REPORT OF THE

BOARD OF OVERSEERS OF THE POOR

FOR THE

YEAR ENDING NOVEMBER 30, 1906.

To the City Council:—

A comparison of the statistics of this department for the past year with those of 1905, shows increased expenditure, greater receipts, and a reduction of $1,081.69 in the net cost.

The appropriation was $34,000.00, the receipts, $13,935.50, making a total of $47,935.50. The expenditures were $46,264.44, leaving a balance unexpended of $1,671.06.

The total expenditures ($46,264.44), with estimated liabilities $300.00, amount to $46,564.44. Deducting therefrom the receipts, $13,935.50, and accounts now due the department amounting to $4,153.72, leaves a net cost of $28,475.22.

ALMSHOUSE.

The suggestion made in our report of 1904 that the insane asylum might later be utilized as a hospital for the sick, has been carried into effect.

The building has been somewhat remodeled to meet hospital requirements. The walls were repainted, extra bath rooms provided and the plumbing repaired. Additional furnishings have been supplied. Enlarged quarters were imperative and the change will give ample hospital accommodations for some time to come, with an opportunity for further expansion should occasion demand.

At present, the lower floor only is occupied; the patients having been transferred on the second day of October last. While neither the building or its location is ideal, both will fill the requirements to a reasonable degree.

The expense involved, amounting to $2,301.55, has been paid from the regular appropriation.

The building vacated is adjacent to the Isolation Hospital and will be used by the Board of Health in the care of patients sick with contagious diseases, and is now being fitted up for that purpose.

The total number of persons supported in the almshouse was 353; the average number was 92 as against 85 in 1905. The average weekly cost was $4.67. This cost is increased by the extra expense for nurses, medical supplies, and a more liberal diet in the hospital.

Of the average weekly number in the institution, 92, there has been seldom less than 30 in the hospital.

Dr. S. J. Russell, after nearly six years of faithful and conscientious service as City Physician, terminated his connection with this department March 1, 1906. Dr. Joseph N. Boyer, was appointed to the vacancy.

340 visits were made by the City Physician to the almshouse during the year.

We regret to note the death on December 2, 1906, of Rev. Joseph Scott, who for 25 years has served as Chaplain at the almshouse. We desire to testify to his sterling worth, the fidelity with which he responded to all calls and the kindly words of sympathy spoken to the unfortunate with whom he came in contact. His great heart went out in love to all mankind, most especially to the poor and unfortunate.

The products of the farm as returned by the Master were as follows:—

30	bushels spinach,	$0.50	$15.00
50	bushels peas,	1.00	50.00
20	bushels cucumbers,	.75	15.00
30	bushels tomatoes,	.50	15.00
30	bushels summer squash,	.50	15.00
70	bushels onions,	.60	42.00
30	bushels beets,	.60	18.00
40	bushels turnips,	.25	10.00
2,000	cabbages,	.04	80.00
1,700	squash,	.01½	25.50
35	tons hay,	14.00	490.00
	Corn silo,		150.00
884	bushels potatoes,	.60	530.40
	Pork sold		612.23
45,039	quarts milk,	.04	1,801.56
			$3,869.69

OUTDOOR RELIEF.

The demand and expenditure for resident outdoor relief has increased, but not to an extent beyond that which would naturally result from the growth of the city. Other causes, however, such as the condition of business, state of the public health, severity of the winter, etc., operate to vary this expense from year to year.

The average yearly expenditure for this item from 1896 to 1906, was $7,601.08. The expense for the past year has been $7,967.85, given to 1,679 persons.

The cost on account of non-resident poor has been $1,456.39, given to 55 persons.

LOCAL HOSPITALS.

The expense has been as follows:—

Mercy Hospital,	$1,619 93
Springfield Hospital,	1,172 75
	$2,792 68

This amount is $1,745.43 less than in 1905.

It has been our aim to provide for as many patients as possible at the hospital connected with the almshouse. We do not purpose, however, to care for surgical or acute medical cases. The equipment for such patients and extra cost of nursing would necessitate considerable expense.

The location of the institution is too remote from the center of the city to be available in emergency cases, and there is no medical staff or resident physician.

WAYFARERS' LODGE.

The number of tramps lodged is the smallest in the history of this institution,—449.

The fixed expenses, however, remain the same and cannot be reduced.

This year additional expense was incurred for repairs,—which will not be necessary again.

The financial success of the lodge depends upon the receipts from sales of wood,—and all citizens are invited to patronize in the purchase of the same.

When it is considered that the number of tramps has been reduced from 7,559 in 1894 when the lodge was opened, to 449 in 1906, the good accomplished will be appreciated.

The legislature of 1905 (Chapter 344, Acts of 1905) compelling cities and towns which provide lodgings for tramps to require work and furnish suitable accommodations, has without doubt aided in bringing about this result.

The financial statement is as follows:—

RECEIPTS.

Cash receipts from sale of wood,	$1,711 67	
Value of wood delivered to the poor,	99 00	
Bills receivable,	113 70	
	$1,924 37	
Net expense of running lodge,	874 00	
		$2,798 37

EXPENDITURES.

Salary of keeper, wood, supplies, etc.,	$2,798 37

Respectfully submitted,

FRANCKE W. DICKINSON,
EDWIN S. STACY,
ARTHUR A. CALL,
JOSEPH N. BOYER, M.D.,
CHARLES C. SMITH,

Overseers of the Poor.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

STATISTICS.

RECEIPTS.

From appropriation,	$34,000 00
Various cities and towns,	2,286 80
The Commonwealth, for temporary aid, care of sick and transportation,	4,644 92
For support of patient at the Hospital for Epileptics at Monson,	169 46
Isolation Hospital for heating, ambulance service and ice,	1,312 49
Individuals, care at Hospital, etc.,	2,473 42
Products of City Farm,	1,336 74
Sale of wood,	1,711 67
	*$47,935 50

EXPENDITURES.

For the support of persons at the almshouse,	$26,452 00
Outdoor relief,	9,424 24
The support of patients at the Springfield and Mercy Hospitals,	2,792 68
Salaries,	4,200 00
Wayfarers' Lodge,	2,798 37
The support of patient at the Hospital for Epileptics at Monson,	169 46
Miscellaneous expenses,	427 69
Balance unexpended,	1,671 06
	*$47,935 50

---

*$200.00 greater in Treasurer's report represents amount advanced for office expenses and covered into the treasury at the end of the year.

Amount of expenditures,		$46,264 44
Total cash receipts,	$13,935 50	
Amount due from Commonwealth,	3,134 08	
Amount due from various cities and towns and individuals,	1,019 64	
	$18,089 22	
Estimated amount due other cities and towns,	300 00	
		17,789 22
Net cost of caring for the poor in 1906,		$28,475 22

ALMSHOUSE.

Number of persons in almshouse, December 1, 1905,	78
Number admitted during the year,	275
Total number of inmates,	353
Number discharged,	259
Number remaining November 30, 1906,	94
Average number of inmates,	92

OUTDOOR RELIEF.

The total number aided was:—

Having settlements in the city,	889
Having settlements elsewhere,	359
Having no settlements,	486
	1,734

The number of families aided was:—

Having settlements in the city,	297
Having settlements elsewhere,	114
Having no settlements,	225
	636

The number of persons aided the first time was:—

Having settlements in the city,	213
Having settlements elsewhere,	88
Having no settlements,	174
	475

The number of families aided the first time was:—

Having settlements in the city,	117
Having settlements elsewhere,	42
Having no settlements,	115
	274

The total number of persons aided during the year was 2,087.

Thirty-five persons have been sent to the State Hospital at Tewksbury.

Fifty-five persons have been aided who were non-residents, but had settlements here.

EXPENSES OF OUTDOOR RELIEF.

Persons having settlements in the city,	$6,213 44
Persons having settlements elsewhere,	1,837 51
Persons having no settlements,	1,373 29
	$9,424 24

INVENTORY.

The personal property in charge of the Board is appraised as follows:—

Almshouse furniture, fixtures and farm tools,	$7,542 25
Almshouse provisions and supplies,	5,989 51
Horses, cows and other live stock,	1,941 00
Office furniture and fixtures,	845 00
Wayfarers' Lodge, wood,	712 37
Wayfarers' Lodge, fixtures,	912 50
Wayfarers' Lodge, supplies,	87 69
	$18,030 32

DETAILED STATEMENT OF EXPENDITURES IN 1905–1906.

OUTSIDE RELIEF.

	Cash.	Transportation.	Fuel.	Provisions and Supplies.	Clothing.	Medicine and Nursing.	Paid Cities and Towns.	Burials.	State Hospital.	Springfield Hospital.	Mercy Hospital.	Totals.
December,	$61 98	$32 35	$210 20	$345 77	$32 90	$22 15	$102 00	$160 00	....	....	....	$967 35
January,	68 08	22 64	211 34	430 87	25 19	59 65	119 20	21 00	$12 29	....	....	970 26
February,	66 98	3 08	226 51	373 52	29 81	17 20	144 43	25 00	....	$494 25	....	1,380 78
March,	73 25	10 73	260 64	484 11	27 94	31 60	9 00	51 00	....	....	....	948 27
April,	49 35	46 88	18 18	302 31	11 03	21 65	50 65	23 00	....	....	$484 71	1,007 76
May,	64 17	23 81	3 19	397 93	18 90	27 30	167 37	27 00	....	220 50	....	950 17
June,	60 75	23 34	....	335 58	....	71 05	25 50	....	....	....	....	516 22
July,	63 35	120 72	....	302 24	9 23	29 65	347 98	143 00	55 43	....	....	1,071 60
August,	42 00	113 96	....	383 70	24 94	15 70	....	15 00	....	190 00	....	785 30
September,	68 78	19 49	....	295 26	19 20	20 45	....	30 00	....	....	....	453 18
October,	52 87	26 44	13 55	302 68	21 83	15 36	124 90	....	....	....	1,006 22	1,563 85
November,	46 65	58 76	166 55	451 92	48 46	16 20	279 28	119 00	18 36	268 00	129 00	1,602 18
	$718 21	$502 20	$1,110 16	$4,405 89	$269 43	$347 96	$1,370 31	$614 00	$86 08	$1,172 75	$1,619 93	$12,216 92

DETAILED STATEMENT OF EXPENDITURES IN 1905–1906.— CONCLUDED.

ALMSHOUSE.

	Maintenance.	Salaries.	Furniture and Repairs.	Totals.
December,	$1,229 26	$589 71	$38 77	$1,857 74
January,	552 24	584 39	169 38	1,306 01
February,	540 84	574 01	153 59	1,268 44
March,	612 93	573 81	46 84	1,233 58
April,	1,160 66	602 93	65 20	1,828 79
May,	1,801 81	677 90	94 55	2,574 26
June,	844 48	585 96	49 50	1,479 94
July,	958 91	610 04	613 97	2,182 92
August,	806 27	707 67	1,195 16	2,709 10
September,	1,139 06	632 93	644 49	2,416 48
October,	2,127 41	689 76	114 30	2,931 47
November,	3,696 44	593 72	378 11	4,663 27
	$15,470 31	$7,422 83	$3,558 86	$26,452 00

MISCELLANEOUS EXPENSES.

	Salaries.	Miscellaneous.	Hospital for Epileptics.	Wayfarers' Lodge.	Totals.
December,	$350 00	$22 11	....	$530 05	$3,727 25
January,	350 01	15 79	$42 71	594 67	3,279 45
February,	350 01	58 01	....	263 56	3,320 80
March,	350 01	38 14	41 79	107 35	2,719 14
April,	350 00	18 89	....	297 13	3,502 57
May,	350 00	37 07	....	154 99	4,066 49
June,	349 99	24 44	42 25	141 93	2,554 77
July,	349 99	33 56	....	85 55	3,723 62
August,	349 99	23 13	....	31 10	3,898 62
September,	349 99	13 31	42 71	142 28	3,417 95
October,	349 99	36 74	....	218 35	5,100 40
November,	350 02	106 50	....	231 41	6,953 38
	$4,200 00	$427 69	$169 46	$2,798 37	$46,264 44

REPORT OF

Committee on State and Military Aid and Soldiers' Relief.

To the City Council of the City of Springfield.

GENTLEMEN:—The Committee on State and Military Aid, having in charge also the disbursement of Soldiers' Relief, under the provisions of Chapter 79, Revised Laws of Massachusetts, respectfully report the work of said Committee for the fiscal year ending November 30, 1906:—

The relief rendered to veteran soldiers of the Union and their dependents, supplemental to the pension system of the government, comprises: (1) State Aid, paid by the city under approval of the state authorities and repaid by the state; (2) Military Aid, jointly borne by the state and the city; and (3) Soldiers' Relief, paid by the city, in such cases as are not provided for otherwise. State Aid is paid to actual residents of the city, while Military Aid and Soldiers' Relief are paid only to persons having a legal settlement in the city—in some cases extending to those having actual residence in other parts of the state. Military Aid is given in but very few cases, the preference being for State Aid, supplemented by Soldiers' Relief, in cases coming under those forms of relief as provided by the law. The policy of the Committee in dealing with all applicants has been, as in former years, that of liberal consideration for the needy, in so far as warranted by principles of justice to the city. It is evident that the needs of this class are not to decrease in the immediate future, as increasing years and infirmities render the veterans and their wives and widows correspondingly unable to provide for themselves, more rapidly, at present, than their numbers are decreased by death.

The work of the department for the year may be briefly summarized as follows:—

State Aid, Civil War,	$12,722 00
State Aid, war with Spain,	96 00
Military Aid, Civil War,	408 00
Military Aid, war with Spain,	180 00
Soldiers' Relief, actually allowed,	3,139 28
Repaid by two towns,	271 73
Salary and incidental expenses,	628 00

Recipients of State and Military Aid now on rolls:—		
Veteran soldiers,	101	
Widows,	129	
Soldiers' wives,	14	
Widowed mothers,	2	
Minor child,	1	
	——	147
Recipients of Soldiers' Relief for year:—		
Families,	38	
Single persons,	34	
	—	72

For the Committee,

JAMES L. BOWEN, *Secretary.*

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

REPORT OF THE

Sealer of Weights and Measures and Inspector of Coal.

To the City Council, City of Springfield.

The routine work of the Sealer of Weights and Measures, in the annual inspection of scales, weights and measures, provided for in Chapter 62, sections 21-24, Revised Laws of Massachusetts, may be thus summarized for the fiscal year 1906:—

Stores and business places visited,..................	660
Railroad track scales tested,........................	7
Platform scales tested, over 5,000 pounds capacity,....	55
Platform scales tested, under 5,000 pounds capacity,..	374
Butchers' scales tested (various patterns),...........	32
Counter platform scales tested,......................	607
Counter balances tested,............................	161
Spring balances tested,.............................	294
Weights tested, ...	6,176
Liquid and dry measures tested,.....................	220
Total tests, ...	7,926

Such articles as were brought to the sealer's office were tested free of charge. For those tested at places of business the fees prescribed by law, amounting to $458.62, were charged and collected for payment to the city treasury. Nearly 30 scales and weights were condemned or ordered thoroughly repaired to conform to the standard, and over 300 adjustments and repairs were made by the sealer. Following the policy of former years, the assistance rendered by the sealer in this line was generally without charge, and was correspondingly appreciated.

GLASS MILK BOTTLES.

The testing of glass milk and cream bottles at the sealer's office has been an important duty during the past year. Early in the year, it appearing that milkmen were neglectful in the matter of bringing their bottles for test, all licensed dealers selling milk in the city were notified to conform to the law. The response was prompt and cheerful, notwithstanding the inconvenience experienced in delivering heavy cases of bottles at the sealer's office, located as it is up an inconvenient flight of stairs. The work for the year is thus summarized:—

Number of bottles tested,	35,667
Number condemned,	2,495
Percentage condemned, over	6.8

The importance of this work is shown by the number of bottles condemned, mostly under size, and it is gratifying to note that bottle manufacturers and dealers have taken warning. In the early part of the year some large lots ran as high as 45 per cent. of condemned. Nearly all of the bottles now brought to the office test within the capacity limit prescribed by law.

SHORT WEIGHTS AND MEASURES.

The routine work of the sealer's office, in the divisions above treated, constitutes but a small portion of the duty devolving upon that department, if it is to be made what is intended by the law—a means of protection against unprincipled and unscrupulous dealers. A multitude of complaints, mostly verbal or anonymous, come to the sealer, some resting upon a sound basis of fact, while many are evidently the outgrowth of fancy or prejudice. During the year all the time and attention possible have been given to following up lines of investigation and correction of erroneous and dishonest practices in the matters deemed of most importance to the community. This is effort which cannot be tabulated or publicly presented otherwise than in general results. Some of these lines of work may be briefly called to attention.

The print butter problem has occupied much time and thought. The competition of trade seemed to be forcing the supposedly pound "prints" to a progressive shrinkage in weight, so that when the matter was first agitated from 14 to 15 ounces, sometimes less, constituted the print which the consumer purchased with the understanding that it weighed a pound. This evil has been largely corrected through publicity and the co-operation of manufacturers and dealers, without the necessity of a resort to legal measures.

A class of hucksters and peddlers of which our city has a share have had attention, and a number of schemes for imposing upon and defrauding the public have been exposed and thwarted.

The illegal stamping of fruit baskets with a capacity greater than the actual received attention during the summer.

The condition of last season's ice market called attention to the need for more stringent regulations for the retail sale of this now indispensable commodity. Ice scales, as used on wagons, are subject to extremely hard usage, and are very liable to become deranged. A large percentage of those tested through the season were condemned and replaced by new or repaired. The fact remains, however, that a large part of the ice delivered to families is not weighed at all, but is simply guessed at by the delivery men—a practice which needs correction. The law requires that ice so delivered shall be weighed whenever requested by the purchaser.

It is believed that this brief review of the work of the past year will indicate the value to the community of this department as a protective force, when adequately equipped and conscientiously conducted. But the present provision is not adequate to give such service as the laws contemplate and the public are entitled to receive. The salary of the sealer is but $500 a year, from which he is required to meet the necessary expenses for transportation and assistance. In the outdoor work a team and helper are indispensable, costing not less than $125 for the season. The net compensation to the sealer, for the entire year, does not, therefore, exceed $375. It is believed that the best solution of the problem of adequate service would be found in the appointment of a deputy sealer, to give his own service with team for such time as required during the busy season. The expense would be trifling, his acts would be authoritative, he would be available for service in case of illness or absence of the sealer, and provision could thus be made for regularly keeping the sealer's office open at suitable hours for the accommodation of the public. This course is respectfully recommended to the incoming mayor and city government.

INSPECTOR OF COAL.

The duties of Inspector of Coal, as provided by our city ordinance, so closely traverse those of sealer of weights and measures as laid down by the Revised Laws of Massachusetts, that they can scarcely be dissociated in a report. As inspector, numerous tests and reweighings of loads of coal have been made during the past year, and a general supervision of the coal trade has been exercised, in conformity with the evident intent of the ordinance. At the request of city departments, the inspector also supervised the weighing, at the dealers' yards, of some 150 loads of coal being delivered to said city departments—a duty not assigned to this department by any specific provision, but which was regarded as logically devolving there, and which was cheerfully assumed with a desire to render helpful service whenever and wherever practicable.

Respectfully submitted,

JAMES L. BOWEN,
Sealer of Weights and Measures and Inspector of Coal.

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

REPORT OF

Committee on Poles and Wires.

CITY'S UNDERGROUND WIRES, 1906.

All of the city's wires in the district prescribed by law for 1906 have been placed underground, also in the following streets: Mill, South, Long Hill, Douglas, North Chestnut and Alden. About 80,000 feet of wire have been used for the same.

A balance of $7.62 remains from the appropriation.

A. W. ALLEN,
CHARLES S. POTTER,
W. S. WARRINER,
Committee.

BOARD OF ALDERMEN, January 3, 1907.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, January 3, 1907.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 4, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 4, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

REPORT OF THE

CITY PHYSICIAN.

SPRINGFIELD, MASS., January 14, 1907.

To His Honor, the Mayor, and Gentlemen of the City Council.

GENTLEMEN:—The following is the report for the year ending December 31, 1906, since my appointment March 1, 1906:—

Number of professional visits made for the Overseers of the Poor,	686
Number of professional visits made to the Almshouse,	209
Number of professional visits made to the Police Station,	141
Number of professional visits made for the Soldiers' Relief,	38

CIVIL SERVICE EXAMINATION.

Number candidates for Fire Department,	15
Number candidates for Police Department,	15

On March 1, 1906, there were 24 patients in the hospital; since then 185 were admitted and 170 discharged, leaving 39 patients in the hospital January 1, 1907.

There were 22 deaths, as per table below, showing age, sex, and cause:—

Age.	Male.	Cause.	Female.	Age.
		Apoplexy	2	65-84
		Cancer	1	65
42-54-66-74	4	Cardiac	2	65-70
		Chronic Morphinism	1	50
47	1	Pneumonia	1	59
69-75	2	Senility	1	77
26-42-50-53-54-59	6	Tuberculosis	1	60
Total,	13		9	

I would recommend that such action be taken as will permit the City Physician to make his annual report for the fiscal year instead of for the calendar year, as now provided by ordinance.

Respectfully,

JOSEPH N. BOYER, MD.,

City Physician.

BOARD OF ALDERMEN, January 21, 1907.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, January 21, 1907.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 22, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 22, 1907.

Approved.

W. E. SANDERSON, *Mayor.*

BOARD OF HEALTH.

ANNUAL REPORT

OF THE

BOARD OF HEALTH

FOR THE YEAR ENDING DECEMBER 31, 1906.

SPRINGFIELD, MASS., January 31, 1907.

To the City Council:—

The Board of Health hereby submits its annual report for the year ending December 31, 1906.

ORGANIZATION.

The Board of Health organized according to statute on the first Monday in February, 1906, with the choice of Mr. Gurdon W. Gordon as Chairman, Dr. H. C. Emerson serving as Clerk, and Dr. T. F. Rearden being the other member of the Board. At the end of six months probationary service Mr. Jacob R. Sackett was appointed Sanitary Inspector. Toward the latter part of the year Mr. James Kimball, Agent of the Board of Health, notified the Board that he would retire from this office with the inauguration of the City Government of 1907. In accepting the retirement of Mr. Kimball from the office which he had so faithfully filled for so long a time the Board adopted the following minute to be entered upon the records of the Board and to be sent to Mr. Kimball:—

"For more than twenty-two years Mr. James Kimball has been in the service of the city as Agent of the Board of Health. During this time the work of the Agent of the Board has increased many fold, not only in the amount of work to be done, but in its character and responsibility due to the broader scope of sanitary science. Mr. Kimball has been untiring in his attention to the details of the several divisions of the work of the Board, and in all of his work the best interests of the city have been his chief concern. There is probably no official who has been connected with our municipal government who has devoted more time, or given more conscientious and faithful service to the work in hand than he.

"The Board desire to place on record their sincere appreciation of Mr. Kimball's services to the city during more than a score of years of uninterrupted activity of safeguarding the public health."

The Board appointed Mr. William L. Young, who has been in the employ of the Board for five years as sanitary inspector, to be Agent of the Board of Health.

The Board reappointed the following physicians to the staff of the Isolation Hospital, and voted to express to them the hearty appreciation of the Board for their faithful service during the most active year of the Hospital's existence:—

Drs. O. R. Blair, W. J. Leonard, Henry Ritter, and C. E. Street.

WORK OF THE BOARD.

In addition to the routine work connected with the five divisions of the Health Department, namely the Public Health work proper, Medical Inspection of Schools, Collection of Ashes, Collection of Garbage, and maintenance of the Isolation Hospital, the Board proposes during the following year to devote special attention to eliminating all vaults from the city, to more frequent inspections of bakeries and barber shops, to the supervision of public display of food stuffs, and more frequent sanitary inspections in various parts of the city.

During the latter part of the year several prosecutions were made for the failure to obey orders issued by the Board, and convictions were obtained in each case, and it is the intention of the Board to continue this practice in all cases where the orders of the Board of Health are disregarded.

The Board desires to call attention to a matter which does not seem to be generally known in reference to the licensing of stables. Section 69, Chapter 102, of the revised laws of Massachusetts reads:—

"No person shall erect, occupy, or use for a stable any building in a city whose population exceeds twenty-five thousand unless such use is licensed by the Board of Health of said city, and, in such case, only to the extent so licensed."

The Board has ruled that stables for cows as well as for horses must be licensed, and during the past year the occupants of several unsanitary cow stables on Ferry Street have been obliged to remove from their locations because of failure to secure a license.

VITAL STATISTICS.

The total number of persons dying in this city during 1906 was 1136, and the death rate per thousand was 14.90. This is the lowest death rate within the past 20 years, and it is probably the lowest in the history of the city. For this reason it is interesting at this time to make a brief study of the data accessible upon the vital statistics of Springfield. Owing to the somewhat incomplete records of mortality and morbidity previous to 1891, we have taken the year 1891 as the starting point for this review. The figures for the population are those employed by the State Board of Health.

Year.	Population.	Death rate per thousand.	Year.	Population.	Death rate per thousand.
1891	45,615	19.25	1899	58,266	16.09
1892	46,924	21.07	1900	62,059	18.02
1893	48,233	19.86	1901	64,412	15.06
1894	49,824	15.69	1902	66,854	15.53
1895	51,522	17.87	1903	69,389	15.85
1896	53,131	17.70	1904	72,020	15.95
1897	54,790	17.06	1905	73,540	15.03
1898	56,501	17.54	1906	76,255	14.90

The period of time embraced in this study is the past sixteen years, and by reference to the above table it will be seen that the death rate has steadily declined until the present low point. This is shown graphically in diagram No. 1.

To what cause or causes may this lowered death rate be ascribed? This question may not be answered in a word, but a study of the data shows that the deaths from zymotic disease (tuberculosis, diphtheria, scarlet fever, diarrhœal diseases, measles, etc., etc.) has been a large determining factor. Deaths from these causes have steadily diminished since 1891. This is shown graphically on diagram 1, and it is to be noticed that the curves of the general death rate and that due to zymotic disease show the same general decline. On the other hand deaths due to causes other than zymotic do not show this decline, but are practically constant from year to year, which is plainly shown by the middle line on diagram 1.

The chief contributing cause to the decrease in the general mortality as well as to the fewer deaths from zymotic disease is the marked reduction in the death rate from tuberculosis. This decrease is very strikingly shown on diagram 2. Although more people died from tuberculosis than from any other cause every year but three for the past sixteen years, the fact remains that the death rate from this disease is being steadily and continuously reduced. This condition is not peculiar to Springfield, but it is none the less welcome. It means better conditions of living, better sanitation of cities, a truer view of the conditions that favor recovery from this disease, and a clearer conception of the fact that although tuberculosis is a communicable disease, it is also preventable.

On diagram 2 will also be found the curve representing the death rate from pneumonia. This curve is interesting not that it shows any special tendency to a lowering of the death rate in this disease, but owing to the fact that, irregular as it is, its high points conform markedly with the higher general death rate, apparently influencing the same.

Diagram 3 shows the curves of the total death rate again, and the death rate from cancer. We think the inference drawn from this chart is a true one, namely that cancer is on the increase in Springfield. It seems fair to assume that with this rising death rate of cancer there must be an increase in the number of cases.

Diagram 4 presents in a very striking way the fact that for the past sixteen years the deaths from typhoid fever have been practically the same in number in spite of the increase in population. In 1892 during an epidemic of typhoid there were 39 deaths, but aside from that year, and including the year 1905, in which there was also an epidemic of typhoid, the number of deaths has varied little from the average per year of 15. It is impracticable to include the morbidity from typhoid in these tables, as the experience of all statisticians is that the reported cases of typhoid do not represent the actual number of cases existing.

During the past sixteen years Springfield has not suffered severely by deaths from scarlet fever, and there is no special change to be noted in the death rate from this disease. There has been, however, a considerable reduction in the death rate from diphtheria, as we should expect owing to the universal use of antitoxine.

It is not generally realized that deaths of children under five years of age constitute the high percentage of the total deaths that exists. During 11 years from 1891 to 1901, 32 per cent. or nearly one-third of the total deaths for those years, and during the past five years 25 per cent. or one quarter of the total deaths, have occurred among children under five years of age.

In considering the data which may be obtained from a study of the death returns, it should be noted that the birth rate in the city of Springfield has declined 20 per cent. in the past 16 years.

MILK.

During the year the Board has had frequent conferences with milk inspector S. C. Downs, and the Board has co-operated with him in trying to secure better sanitary conditions at the dairies that produce Springfield milk. The Board feels that the city milk supply demands a great deal closer oversight than is possible to be given by one man. The experience of the past few years, in which there has been an attempt at systematic inspection of the dairies, shows that whereas many of the producers are willing to improve the sanitary conditions of their premises, there are many stables and cows whose sanitary condition is far from satisfactory. There are about 600 dairies supplying milk to Springfield which should be inspected at least three or four times a year, and this in itself requires the inspector to spend a large amount of time out of the city. There is also the work of testing the milk for its butter fat and total solids, which also requires considerable time. In addition to these tests to determine whether the milk is of legal standard or not, the Board feels that a limit should be placed upon the number of bacteria which a milk can legally contain, and for this reason we are of the opinion that the bacteriological work should be undertaken. Milk produced and handled among clean surroundings will, if kept properly cooled, show a comparatively low number of bacteria, and the contrary of this is also true.

The bacteriological examination of milk is a positive index of the cleanliness of the dairy, and the care of the milk. In addition to this examination of milk, the Board believes that further attention should be paid to the determination of the temperature of the milk. Milk which is allowed to reach a temperature of over 50° F. and remain so offers most favorable conditions for the increase of bacteria. There is no question but that the cleanliness and purity of the milk supply of a city have much to do with its infant mortality.

MEDICAL INSPECTION OF SCHOOLS.

A small appropriation was obtained this last year to inaugurate a system of medical inspection of the public schools. As the sum was not considered large enough to carry on the work for a full year it was decided to begin this work at the opening of the school year in September. Under the statutes medical inspection of public school children is now compulsory and may be carried on either by the School Committee or the Board of Health. The Board of Health has had several consultations in previous years with the Springfield School Board, and it has always been the opinion that medical inspection of the schools should be undertaken by one Board or the other, preferably, perhaps, by the Board of Health. During the summer a set of rules governing medical inspection was devised by the Board of Health, and submitted to the School Committee for its approval. These rules were adopted both by the School Board and Board of Health, and the work was undertaken under the supervision of the Board of Health last September. It was decided to appoint ten physicians as medical inspectors at a salary of $25.00 per month. It was further decided to appoint Dr. Philip Kilroy, a specialist in the diseases of the skin and nervous system, as consulting physician, to serve without pay.

The city was divided into ten school districts and the apportionment was so made that each inspector had about 1,200 children in his district. Two inspections are now made each week, and reports of all examinations made to the Board, and a school record of these cases is also kept.

The record of the four months' work amply demonstrates both the need and usefulness of routine medical inspection of our public school children. The tabulated returns of the work of medical inspection will be found below.

Special attention, however, should be drawn to the fact that eight cases of diphtheria, sixteen cases of whooping cough and many other cases of specific infectious disease, have been discovered attending school, and it cannot but be a source of gratification to both parents and teachers that an unknown amount of infection from these known cases has been prevented by their prompt exclusion from school. Physicians, parents, and teachers have expressed appreciation of the work that has already been accomplished.

Changes will be made in the methods of carrying on the work as experience indicates, but that the money is well expended in this line of prevention of contagious disease among school children, there can be no doubt. The Board appreciates Dr. Kilroy's services in consulting with the inspectors about doubtful cases, and also the interest shown in the work by teachers and the inspectors.

LIST OF MEDICAL INSPECTORS OF SCHOOLS.

Dr. R. S. Benner, Howard Street, and William Street.

Dr. W. H. Chapin, Central High, Technical High, State Street Grammar, and School Street.

Dr. M. W. Harrington, I. O. Primary and Grammar, I. O. Primary, Sixteen Acres, and Five Mile Pond.

Dr. F. H. Haskins, Hooker, Chestnut Street, and Glenwood.

Dr. J. P. Hillard, Eastern Avenue, Central Street, White Street, and Wachogue.

Dr. C. F. J. Kennedy, Armory, Charles Street, and Worthington Street.

Dr. R. B. Ober, Buckingham, Tapley, and Homer.

Dr. H. Ritter, Brightwood, Carew Street, and Jefferson Avenue.

Dr. E. T. Smith, South Main Street, Belmont Avenue, Forest Park.

Dr. C. E. Street, Strickland, Oak, Alden, and East Union.

TABULATION OF REPORTS OF MEDICAL INSPECTORS OF SCHOOLS, SEPTEMBER TO DECEMBER, INCLUSIVE, 1906.

LIST OF DISEASES FOUND IN THE SCHOOLS.

I.—Specific Infectious Diseases.

Diphtheria,	8
Scarlet Fever,	0
Measles,	2
Whooping Cough,	16
Mumps,	11
Chicken Pox,	8
Influenza,	1
Tuberculosis,	1
Malaria,	1

II.—Diseases of the Oral and Respiratory Tract.

1. *Mouth.*

Stomatitis,	3

2. *Pharynx.*

Acute Pharyngitis,	52
Chronic Pharyngitis,	2

3. *Tonsils.*

Acute Follicular Tonsilitis,	67
Hypertrophic Tonsilitis,	39

4. *Nose.*

Acute Rhinitis,	8
Chronic Rhinitis,	1
Nasal Ulcer,	1
Nasal Obstruction,	2

5. *Naso-Pharynx.*

Naso-Pharyngitis,	9
Adenoid Disease,	72

6. *Larynx.*

Acute Laryngitis,	11

7. *Bronchi.*

Acute Bronchitis,	12
Chronic Bronchitis,	1

III.—DISEASES OF THE EAR.

Otitis Media, suppurative, acute,	17
Otitis Media, suppurative, chronic,	3
Imperfect Hearing,	18

IV.—DISEASES OF THE EYE.

1. *Eyelids.*

Blepharitis,	10
Stye,	12

2. *Conjunctiva.*

Conjunctivitis—

(*a*) Acute Catarrhal,	34
(*b*) Purulent,	1
(c) Chronic,	3

3. *Cornea.*

Interstitial Keratitis,	1
Opacity,	7

4. *Muscles.*

Strabismus,	2
Eye Strain,	14
Imperfect Sight,	83

V.—DISEASES OF THE SKIN.

Acne,	5
Alopecia Areata,	2
Dermatitis,	47
Eczema,	51
Erythema Simplex,	3
Furuncle,	18
Herpes Simplex,	68
Impetigo Contagiosa,	352
Pediculosis,	297
Psoriasis,	2
Scabies,	78
Seborrhœa,	2
Tinea Favosa,	1
Tinea Tricophytina,	30
Urticaria,	3
Verruca,	3

VI.—MISCELLANEOUS DISEASES.

Anæmia,	1
Bites,	16
Asthma,	2
Abscess,	7
Cervical Adenitis,	23
Chorea,	5
Contusions,	14
Deformities, spinal,	1
Deformities, spinal, extremities,	2
Cleft Palate,	2
Debility,	16
Dental Caries,	10
Epilepsy,	3
Defective Speech,	7
Gastric Diseases,	13
Intestinal Diseases,	1
Urinary,	8
Headache,	16
Neuralgia,	2
Rheumatism,	3
Sprains,	2

Ulcer,	9
Wounds,	101
Paronychia,	7
Mental Dullness,	7
Torticollis,	1
Fever,	3
Vaccinations performed,	343
Unclassified,	40
No disease,	70
Certificates given,	637

SUMMARY.

Specific and Infectious Diseases,	47
Oral and Respiratory Diseases,	280
Diseases of the Ear,	38
Diseases of the Eye,	167
Diseases of the Skin,	962
Miscellaneous Diseases,	1,302
No disease found,	70
Total number of pupils examined,	2,866
Total number sent home,	563

ISOLATION HOSPITAL.

The capacity of this hospital has been taxed to its utmost during the past year, and the time has come when it no longer is able to care for the patients that should receive its treatment in a proper and efficient manner. An addition to the hospital has been earnestly desired for some time, and early in the summer the Board of Health inspected the almshouse hospital with a view to incorporating the same, with necessary changes, into the isolation hospital. It was understood then that the overseers of the poor were to vacate this hospital during the year, when it would become available for the Board of Health. This hospital has been vacated and during the past few weeks the Board of Health has been using several rooms of the hospital as quarters for the isolation hospital nurses.

The total number of patients treated at this hospital during the past year has been 127, which is about 50 more than have been treated in any previous year. The large number of patients under treatment at various times during the year has made an increase in the number of nurses necessary, and it has been with great difficulty that the work has been properly carried on. We think, however, that in spite of the crowded conditions this hospital has never been of greater service to the public, nor have the patients received better attention, than during the past year. It is imperative that additions and improvements be made at the hospital, taking in the almshouse hospital building, and including a new equipment for proper laundry and kitchen facilities. To this end an appropriation large enough to reconstruct the hospital and place it upon an efficient and dignified basis will be immediately asked. In this connection the Board of Health strongly urge that in connection with the laundry department of the Isolation Hospital there be built a steam disinfecting plant, which is necessary for the use of the hospital, and very much to be desired for public service. The Board of Health are in receipt many times during the year of requests for disinfection of articles which can only properly be disinfected in apparatus of this description, such as the Worcester and Brookline and many other isolation hospitals maintain.

During the year seven deaths occurred from diphtheria, which represents about one third the total deaths from diphtheria in the city. It should be noted that of the 127 patients at the hospital 40 were more than 21 years of age, indicating the usefulness of the institution to adults. The total days' care was 2,727, and the total cost was $6,381.22. The following table shows matters of interest as to the age, sex, and disease of the patient admitted.

TABLE SHOWING DISEASE, AGE AND SEX OF PATIENTS.

Age.	1-5		6-10		11-20		21-30		31-40		41-50		51-60		61-70		71-80		Total.
Sex.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.-60 F.-67
Diphtheria.	6	9	9	4	5	3	6	6		1		1							M.-26 F.-24 50
Scarlet fever.	10	6	5	8	6	10	1	10											M.-22 F.-34 56
Erysipelas.					1			3	1		3	3				1			M.- 5 F.- 7 12
Measles.	4					1	2	1											M.- 6 F.- 2 8
Mumps.											1								M.- 1 F.- 0 1

Total number of patients, - - 127

The occupation of the patients was as follows:—

At school,	49	Baker,	1
Infants,	29	Solicitor,	1
Housewives,	11	A. D. T. Messenger,	1
Domestics,	10	Stenographer,	2
Clerks,	8	Forewoman,	1
Mechanics,	2	Teamster,	1
Nurses,	2	Corset Maker,	1
Laborers,	1	Commercial Traveler,	1
Waitress,	1	Superintendent,	1
Waiter,	1	Motorman,	1
Foreman,	1	Teacher,	1

COMMUNICABLE DISEASES.

This city has been fortunately free from any epidemic of communicable disease during the past year, although diphtheria and scarlet fever have been reported in somewhat larger numbers than during 1905. The following table shows the number of reported cases for each month of diphtheria, scarlet fever, typhoid fever, measles, and tuberculosis:—

Disease.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Diphtheria.	9	12	19	10	13	23	16	29	27	36	47	43	284
Scarlet fever.	22	18	28	51	50	22	10	2	1	13	25	28	270
Typhoid fever.	5	0	6	13	2	7	5	22	23	11	10	7	111
Measles.	3	2	1	5	11	37	26	9	1	1	2	4	102
Tuberculosis.	5	7	15	3	6	2	5	5	3	6	3	0	60

TYPHOID FEVER.

Ward.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1	1	0	1	4	0	0	1	4	1	2	2	1	17
2	0	0	1	1	0	1	0	1	4	2	0	0	10
3	0	0	0	1	1	3	1	1	1	1	0	0	9
4	2	0	0	1	0	1	2	4	0	0	2	1	13
5	0	0	1	2	0	1	1	3	3	0	2	2	15
6	1	0	0	1	0	0	0	2	2	1	2	0	9
7	1	0	0	0	1	1	0	2	6	2	1	0	14
8	0	0	3	3	0	0	0	5	6	3	1	3	24
Total,	5	0	6	13	2	7	5	22	23	11	10	7.	111

Although less than one half the number of cases of typhoid fever were reported this year than last, the number (111) is higher than officials or laymen like to see. During the month of April thirteen cases were reported, but no common cause could be traced. In August and September forty-five cases occurred, and, with the exception of about a dozen cases, no common origin could be made out. There appeared a sequence of ten or twelve cases from one case, and the milk was thought to be the mode of conveyance of the infection. There appeared to be many possible sources of origin for many of the cases, and that the typhoid fever germ may be distributed in a variety of ways there can be no doubt. The greatest possible care is taken to look up the history of each case, but reliable information is often most difficult to obtain. Seventeen deaths occurred from this disease.

DIPHTHERIA.

Ward.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1	2	1	1	3	1	2	1	4	4	9	8	2	47
2	0	1	0	1	2	1	4	8	3	3	9	4	36
3	2	5	1	2	4	11	6	5	2	3	5	5	51
4	1	0	2	1	1	1	2	3	0	2	2	5	20
5	1	1	2	2	1	0	0	2	1	3	7	3	23
6	1	2	2	0	2	2	1	3	5	2	8	6	34
7	1	1	7	0	1	6	2	0	1	7	6	5	37
8	1	1	4	1	1	0	0	4	11	7	2	4	36
Total,	9	12	19	10	13	23	16	29	27	36	47	34	284

Diphtheria was more prevalent during the latter part of the year, and the cases were well scattered throughout the city. Seventy more cases were reported in 1906 than in 1905, with a total of 284, twenty-three of which proved fatal. There is no question but if the adults in charge of young children would secure earlier medical attendance in cases of what frequently appears to be nothing but a sore throat many lives would be saved by the prompt use of antitoxin, which is supplied free of charge by the State Board of Health through the local Board.

SCARLET FEVER.

Ward.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1	8	1	9	14	11	8	1	1	0	3	7	2	65
2	2	3	1	2	3	6	5	1	1	3	6	6	39
3	1	0	2	6	0	0	0	0	0	0	1	5	15
4	0	1	5	2	8	1	0	0	0	0	1	3	21
5	2	2	2	8	9	1	0	0	0	0	1	3	28
6	0	1	0	2	0	0	1	0	0	0	3	1	8
7	5	9	7	13	15	4	2	0	0	1	4	3	63
8	4	1	2	4	4	2	1	0	0	6	2	5	31
Total,	22	18	28	51	50	22	10	2	1	13	25	28	270

Four deaths occurred from 270 cases of this disease, which was especially prevalent during the spring months. The type of the disease was mild, and it should again be noted that much danger exists from the mild type of the common communicable disease, as it is probable that many unreported cases exist that constitute a focus of infection.

MEASLES.

Ward.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1	0	0	0	1	1	4	0	0	0	1	0	0	7
2	0	0	1	2	0	4	2	1	0	0	0	0	10
3	2	1	0	0	1	0	5	4	0	0	0	0	13
4	0	0	0	0	3	3	2	0	0	0	0	1	9
5	0	0	0	2	3	2	1	0	1	0	1	1	11
6	0	0	0	0	2	7	6	4	0	0	0	0	19
7	1	0	0	0	0	14	9	0	0	0	1	1	26
8	0	1	0	0	1	3	1	0	0	0	0	1	7
Total,	3	2	1	5	11	37	26	9	1	1	2	4	102

Four deaths occurred from 102 reported cases.

TUBERCULOSIS.

Sixty cases of pulmonary and laryngeal tuberculosis were reported to the Board of Health, and there were 94 deaths from pulmonary tuberculosis during the year. It is to be hoped the physicians will take the same pains to report cases of this disease that obtain with the above mentioned diseases.

The reports of the Agent, the Bacteriologist, the Plumbing Inspector, the Inspectors of Milk, Vinegar, Meats, Provisions and Animals, together with a detailed financial statement, will be found in the following pages.

Respectfully submitted,

GURDON W. GORDON,
THOMAS F. REARDEN, M.D.,
HERBERT C. EMERSON, M.D.,
Board of Health.

REPORT OF DEATHS, SPRINGFIELD, 1906.

CAUSE OF DEATH.	Number of Deaths.	SEX.		AGE.																NATIVITY.					MONTH.											
		Males.	Females.	Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	Over 80.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Consumption	94	52	42	1	..	1	..	..	..	1	9	31	17	18	11	4	1	...	..	17	20	23	34	..	2	5	8	12	13	10	10	5	6	11	6	6
Other forms of Tuberculosis	22	12	10	9	4	1	..	..	2	..	..	1	3	1	1	...	...	...	..	14	4	3	1	..	3	...	4	3	1	2	3	2	..	2	1	1
Pneumonia	109	63	46	20	12	3	4	3	2	2	..	3	5	9	12	15	14	5	..	49	14	22	24	..	18	12	14	14	11	3	4	5	1	5	6	16
Bronchitis	19	8	11	7	..	..	..	..	..	..	1	...	..	1	...	2	3	5	..	8	4	2	5	..	2	3	2	1	2	2	...	...	..	2	2	3
Influenza	4	3	1	...	..	..	..	..	..	..	..	...	..	1	...	2	1	...	..	2	...	2	...	..	...	1	1	1	1	..	...	...	..	..	..	...
Whooping Cough	21	10	11	11	8	1	1	..	..	..	..	...	..	...	...	...	...	...	..	17	2	1	1	..	2	1	2	..	...	1	3	5	2	3	..	2
Diphtheria and Croup	23	11	12	...	1	4	6	3	8	..	..	1	..	...	...	...	...	...	..	17	3	1	2	..	...	2	1	2	2	2	2	2	2	3	2	3
Measles	4	...	4	2	..	1	1	..	..	..	..	...	..	...	...	...	...	...	..	3	...	...	1	..	...	...	..	1	...	..	1	2	..	..	..	...
Scarlet Fever	4	1	3	2	..	..	..	..	2	..	..	...	..	...	...	...	...	...	..	2	1	1	...	..	...	...	..	1	2	..	...	...	..	..	..	1
Erysipelas	3	1	2	1	..	..	..	..	..	..	..	1	1	...	...	...	...	...	..	1	1	1	...	..	...	...	2	..	1	..	...	...	..	..	..	...
Malarial Fevers	...	...	...	...	..	..	..	..	..	..	..	...	..	...	...	...	...	...	..	...	..	...	...	..	...	...	..	..	...	..	...	...	..	..	..	...
Cholera Infantum	31	19	12	28	3	..	..	..	..	..	..	...	..	...	...	...	...	...	..	29	1	1	...	..	...	...	..	..	...	1	12	12	4	1	1	...
Dysentery	2	...	2	...	..	..	..	..	..	..	..	...	..	...	...	...	1	1	..	...	...	1	1	..	...	...	..	..	...	..	1	...	1	..	..	...
Diarrhœal Diseases	34	21	13	21	5	2	1	..	..	..	..	1	..	...	...	...	2	2	..	26	3	2	3	..	1	..	..	..	...	2	7	17	2	3	1	1
Intestinal Obstruction	11	3	8	2	1	1	..	..	..	..	..	2	1	1	1	...	1	1	..	3	2	4	2	..	...	...	..	1	3	1	...	2	..	2	2	...
Typhoid Fever	17	7	10	...	..	..	..	..	1	2	4	6	3	1	...	...	...	...	..	3	4	5	5	..	...	...	2	1	3	1	1	1	5	3	..	...
Gastritis	14	6	8	3	1	..	..	..	..	1	..	3	1	1	...	3	1	...	..	7	2	1	4	..	1	...	1	2	3	..	1	2	1	..	1	2
Peritonitis	4	...	4	...	..	..	..	..	..	..	1	1	1	1	...	...	...	...	..	1	2	...	1	..	...	...	1	..	...	1	...	...	..	1	1	...
Septicæmia	8	4	4	...	..	..	..	..	..	..	..	2	2	3	1	...	...	...	..	2	3	1	2	..	...	...	..	..	1	3	...	...	..	1	1	2
Salpingitis	4	...	4	...	..	..	..	..	..	..	..	2	..	2	...	...	...	...	..	1	...	3	...	..	...	...	1	..	3	..	...	...	..	..	..	...
Appendicitis	15	10	5	...	..	..	..	..	1	2	..	3	3	3	2	...	1	...	..	1	6	2	6	..	1	1	..	2	1	..	2	2	2	1	1	2
Nephritis	104	61	43	2	..	..	..	..	..	1	..	8	10	11	17	24	24	7	..	15	32	34	22	1	6	8	9	8	13	10	9	6	7	5	8	15
Diabetes	11	6	5	...	..	..	..	..	..	1	..	1	1	...	2	4	2	...	..	1	3	4	3	..	1	2	..	1	2	2	1	...	..	1	..	1
Cystitis	5	5	...	...	..	..	..	..	..	..	..	...	..	...	...	1	2	2	..	...	4	1	...	..	...	...	2	..	...	..	3	...	..	..	..	...
Diseases of the Liver	20	8	12	...	..	..	..	..	..	..	..	2	3	4	4	7	...	...	..	1	2	7	10	..	1	3	2	..	2	2	2	1	1	2	2	2
Cancer	66	21	45	...	..	..	..	..	1	..	..	2	6	11	16	16	8	6	..	2	18	20	24	2	7	7	5	7	5	3	8	9	2	5	4	4
Other Tumors	6	2	4	...	..	..	..	..	..	..	1	...	1	3	1	...	...	...	..	...	1	3	2	..	1	2	..	..	2	...	...	...	1	..	..	...

REPORT OF DEATHS, ETC.—CONTINUED.

CAUSE OF DEATH.	Number of Deaths.	SEX.		AGE.																NATIVITY.					MONTH.											
		Males.	Females.	Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	Over 80.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Puerperal Diseases	9	...	9	...	..	..	..	..	..	..	..	5	1	3	...	...	...	...	..	...	3	...	6	..	...	1	..	..	2	..	2	...	2	1	..	1
Cerebro Spinal Fever	4	4	...	1	..	..	1	..	..	..	1	1	..	...	...	...	...	...	..	3	1	...	...	..	...	...	..	1	2	..	...	1	..	..	..	...
Meningitis	23	12	11	9	3	3	..	..	1	..	2	1	1	2	1	...	...	...	..	15	1	5	2	..	1	3	1	3	1	3	1	1	3	2	2	2
Convulsions	16	10	6	12	1	..	..	..	..	..	..	...	..	...	1	1	...	1	..	12	1	2	1	..	...	3	3	3	...	2	2	...	1	1	..	1
Apoplexy	59	19	40	...	..	..	..	..	..	..	..	...	1	6	6	17	16	13	..	2	11	25	21	..	5	2	4	5	10	7	4	5	5	3	4	5
Other Diseases of Nervous System	13	7	6	...	..	..	..	..	..	..	..	...	1	...	1	8	3	...	..	...	5	3	5	..	...	1	..	1	4	..	2	3	..	..	1	1
Diseases of Heart	102	59	43	5	..	1	..	..	2	2	..	7	8	14	16	24	17	6	..	19	32	20	30	1	8	6	9	6	11	8	5	7	10	10	11	11
Diseases of Arteries	37	20	17	...	..	..	..	..	..	..	..	...	..	...	2	7	15	13	..	...	15	17	5	..	1	6	4	3	2	4	1	1	4	5	1	5
Anæmia	3	2	1	...	..	..	..	..	..	..	..	1	..	1	1	...	...	...	..	...	...	2	1	..	...	1	..	1	...	..	...	...	..	1	..	...
Infantile Debility	52	30	22	50	2	..	..	..	..	..	..	...	..	...	...	...	...	...	..	49	1	2	...	..	2	4	5	5	4	6	4	4	4	5	2	7
Senile Debility	31	11	20	...	..	..	..	..	..	..	..	...	..	...	...	5	6	20	..	2	8	8	13	..	3	1	4	4	3	5	2	2	1	2	2	2
Alcoholism	9	8	1	...	..	..	..	..	..	1	..	1	2	3	1	1	...	...	..	1	...	...	7	1	2	...	..	..	...	1	1	2	..	..	3	...
Homicide	1	1	...	...	..	..	..	..	..	..	..	...	..	...	1	...	...	...	..	...	...	...	1	..	1	...	..	..	...	..	...	...	..	..	..	...
Accidental	68	49	19	...	..	1	2	1	4	6	3	11	11	12	4	4	7	2	..	15	9	19	23	2	4	4	3	2	4	5	8	13	7	5	7	6
Suicide	12	7	5	...	..	..	..	..	..	..	..	3	3	4	...	2	...	...	..	2	1	6	3	..	2	...	3	1	1	..	2	1	1	1	..	...
Premature	26	17	9	26	..	..	..	..	..	..	..	...	..	...	...	...	...	...	..	25	1	...	...	..	3	5	1	2	1	1	5	2	3	2	..	1
Hydrophobia	1	1	...	...	..	..	..	..	1	..	..	...	..	...	...	...	...	...	..	1	...	...	...	..	...	...	..	..	...	..	1	...	..	..	..	...
Tetanus	....	...	...	...	..	..	..	..	..	..	..	...	..	...	...	...	...	...	..	...	...	...	...	..	...	...	..	..	...	..	...	...	..	..	..	...
Trichinosis	....	...	...	...	..	..	..	..	..	..	..	...	..	...	...	...	...	...	..	...	...	...	...	..	...	...	..	..	...	..	...	...	..	..	..	...
Other Causes	15	4	11	...	..	..	..	1	1	..	1	3	2	1	6	...	...	...	..	5	4	5	1	..	...	1	2	2	1	..	3	...	1	2	3	...
Total	1136	595	541	212	41	19	16	8	26	19	23	103	88	117	108	147	125	84	..	373	225	259	272	7	78	85	96	96	117	88	113	115	79	91	75	103
Still Births	69	48	21	...	..	..	..	..	..	..	..	...	..	...	...	...	...	...	..	67	...	...	...	2	11	9	3	3	6	5	7	4	5	5	5	6

REPORT

OF THE

AGENT OF THE BOARD OF HEALTH.

January 1, 1907.

To the Chairman and Members of the Board of Health:—

GENTLEMEN:—The past year has been no especial exception to former years in the usual routine of labor and care devolving upon the Health Department. The increasing growth of the city must and does add to the duties and expenses of the Department.

The following is a summary of the inspections made including the regular house to house inspections and those in answer to complaints, all of which have received the needed attention during the year of 1906:—

Number of filthy yards,	43
Number of filthy cellars,	20
Number of filthy alleys,	12
Number of filthy tenements,	13
Number of filthy garbage tubs,	56
Number of filthy stables,	9
Number of filthy markets,	1
Number of filthy hog pens,	3
Foul odors from privy vaults,	72
Foul odors from water closets,	19
Foul odors from manure heaps,	36
Foul odors from rendering plants,	3
Foul odors from bakeries,	2
Foul odors from surface sink drains,	43
Sewer openings, foul odors,	7
Foul odors from standing water,	7
Foul odors from sewer drainage in cellars,	5

Foul odors from decaying meat and fish,	8
Garbage thrown in yards,	29
Slops thrown on ground,	13
Ashes thrown in streets,	4
Poultry yards as nuisance,	18
Dumping rubbish unlawfully,	31
Privy vaults overflowing,	47
Cesspools overflowing,	23
Water closets without water,	16
Yards,	886
Bakeries,	114
Barber shops,	48
Cellars,	715
Alleyways,	46
Stables,	131
Dead animals removed:—	
Dogs,	95
Cows,	1
Horses,	160
Cats,	30

CONTAGIOUS AND INFECTIOUS DISEASES.

This branch of the work of this Department has required and been given good and careful attention. This work is of such a nature and dimension that it has required and taken almost the entire time of an Inspector to attend to and care for each case reported, including placarding and obtaining a complete history of each case together with the removal of the notification cards, the cleansing and fumigating of premises after the death or recovery of the patients.

Number of houses fumigated,	450
Number of rooms fumigated,	1,049

REMOVAL OF GARBAGE.

The same system has been carried out in the collection of garbage as in years past by the city teams. These collections are made without any effort being taken by the householders so far as placing or bringing the receptacles to the street, but the garbage is taken from the premises from points dictated by those accommodated. If householders would take more care in providing better receptacles and in placing them where water would be excluded a large gain would be made in facilitating the collections and reducing the expense. This would apply to both the Scavenger and Ash Divisions of the Health Department.

Arrangements are now in practice which require the garbage to be transported in the same vehicles in which it is collected to the different destinations where it is utilized.

The method of its disposal at the present time is mostly by feeding to swine.

ASHES AND RUBBISH.

This work is ever on the increase, and the increased erection of schoolhouses, of public buildings, and so-called tenement flats has greatly added to the work of this division.

STABLES.

Thirty-two applications to occupy stables have been received. The premises were carefully examined in each case and twenty-six of the applicants received licenses.

Respectfully submitted,

JAMES KIMBALL, *Agent.*

REPORT OF THE BACTERIOLOGIST.

Springfield, Mass., February 11, 1907.

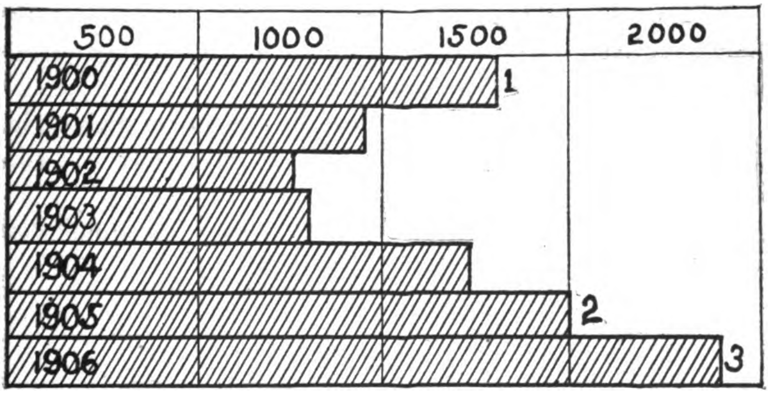
To the Board of Health:—

I hereby submit my report for the year ending December 31, 1906.

The work of the bacteriologist continues to increase year by year, and the actual number of tests made during the past year is nearly 25% more than during 1905. In the latter part of 1905 the Board of Health decided to include among the free laboratory tests examinations of blood in cases of suspected typhoid fever, so that the work of the bacteriologist now consists in the examination of sputa in cases of suspected tuberculosis, cultures for diagnosis and release in real and suspected cases of diphtheria, and the tests of blood in doubtful cases of typhoid.

Table

Showing number of laboratory tests for diphtheria, tuberculosis and typhoid fever made by the bacteriologist 1900 to 1906 inclusive.



1 **1899-1900 diphtheria epidemic.**
2 **Examinations of sputum included.**
3 **Tests for typhoid included.**

The laboratory work consists not alone in the actual examinations of specimens received, but a great deal of time is required to prepare the large number of sterile swabs for the diphtheria work and the outfits for typhoid and tuberculosis examinations. The following table shows graphically a steady increase in the number of laboratory tests.

During the past year 139 examinations have been made for the detection of tuberculosis of which 39 proved positive and 100 were negative. These are tabulated by months as follows:—

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
Positive	5	4	4	2	4	2	4	5	2	5	2	0	39
Negative	9	5	6	7	9	8	11	7	9	12	10	6	100
	14	9	10	9	13	10	15	12	11	17	12	6	139

Sixty examinations in cases of suspected typhoid fever have been made, of which 17 were positive and 43 negative.

The total number of cases examined for the presence of diphtheria bacilli were 892, showing an increase of 226 cases, or 34%, over the number submitted in 1905.

Of these 892 cases but 268 showed the presence of diphtheria bacilli, while by far the larger number of cases, 624, did not show diphtheria.

Below will be found the monthly record of diphtheria examinations.

A

PRIMARY CASES FOR DIAGNOSIS AND RELEASE.

MONTHS.	DIAGNOSIS.		RELEASE.		TOTAL CASES.
	Positive.	Negative.	Positive.	Negative.	
January,	9	59	0	0	68
February,	12	43	0	0	55
March,	15	63	0	1	79
April,	12	55	0	1	68
May,	12	36	0	0	48
June,	23	32	0	0	55
July,	15	21	0	0	36
August,	29	16	0	0	45
September,	24	41	0	0	65
October,	40	60	0	0	100
November,	41	85	0	0	126
December,	36	104	0	7	147
Totals,	268	615	0	9	892

B

SUMMARY OF CULTURES EXAMINED.

MONTHS.	FOR DIAGNOSIS.				FOR RELEASE.				TOTALS.
	Taken by Others.		Taken by Bacteriologist.		Taken by Others.		Taken by Bacteriologist.		
	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	
January,	9	59	0	0	1	7	4	8	93
February,	12	41	0	1	4	6	0	16	86
March,	15	65	0	2	10	8	4	21	125
April,	12	57	0	0	14	5	8	14	110
May,	12	42	0	0	5	2	2	13	76
June,	23	35	0	2	12	8	4	28	112
July,	15	22	0	0	10	5	8	43	103
August,	29	23	0	1	13	11	2	26	105
September,	24	44	0	0	3	10	5	58	144
October,	40	62	0	0	20	18	21	49	210
November,	41	98	0	0	14	17	16	54	240
December,	36	104	0	0	26	23	24	90	303
Totals,	268	663	0	6	132	120	98	420	1,707

Cultures taken by bacteriologists,	524
Cultures taken by others,	1,183
Total tests for diphtheria,	1,707

Total tests for typhoid fever,	60
Total tests for tuberculosis,	139

Total laboratory examinations,	1,906

Respectfully submitted,

HERBERT C. EMERSON, M.D.,

Bacteriologist.

REPORT

OF THE

INSPECTOR OF PLUMBING.

SPRINGFIELD, MASS., January 23, 1907.

To the Board of Health:—

GENTLEMEN:—The year 1906 has been a very busy one in the Plumbing Department, as the following report will show.

The whole number of Plumbing Permits issued were 772, an increase of 234 over last year.

The number issued for new work only were 362, as compared with 267 for last year.

The permits issued for additions and alterations were 410, as compared with 269 for 1905.

The whole number of inspections, including all special investigations, were 3048, or 10 calls as a daily average.

There have been 91 vaults abolished and water closets installed during the year, 37 of these being on one street.

The work in this department has increased to such an extent, during the year, that it is impossible to keep pace with it alone. In view of this fact, I would respectfully request that early action be taken in providing an assistant.

LICENSED AND CERTIFIED PLUMBERS.

Applicants before the Examining Board,	28
Applicants recommended for license,	27
Plumbers' licenses renewed to January 1,	92
Plumbers' certificates in force (law of 1894),	61
Whole number qualified,	180

Respectfully submitted,

F. W. TOWER,

Inspector of Plumbing.

REPORT

OF THE

INSPECTOR OF MILK AND VINEGAR.

To the Board of Health:—

GENTLEMEN:—I have the honor to submit the following report as Inspector of Milk and Vinegar for the year commencing March 1st and ending December 31st, 1906.

Number of licenses issued for the sale of milk,		135
Number of registrations issued for the sale of milk,		136
Total number of licenses and registrations,		271
Number of samples of milk collected,		658
Number of samples of milk brought to the office,		728
Total number of samples examined,		1,386
Number of samples collected below the standard,		92
Number of samples brought to the office,		90
Total number,		182
Number of samples of vinegar examined,		6
Number of prosecutions,		1
Number of dairies inspected,		330
Number of stores and restaurants,		301
Total number,		631
Received for licenses and registration fees,		$135 50
Paid City Treasurer,	$135 00	
1 registration returned,	50	
		135 50

The number of licensed milk dealers,	135
The number of registered stores and markets,	157
The number of registered restaurants,	41
Total,	333
The number of milk producers,	480

Owing partly to the increase in the population of the city, and partly to the fact that many farmers have decreased the size of their herds, the demand for milk has been larger than the supply. Dealers have been forced to procure an additional supply, most of which has been coming from the North and East, about 5,500 quarts of milk being received daily by trains.

Entering upon the duties of this office and not finding any records relating to the previous work has greatly embarrassed and delayed my work.

Where samples have fallen below the statute requirements, I have thought it only necessary to send warnings. I am satisfied there was no intention of adulterations, but carelessness on the part of store-keepers in not pouring the milk before waiting upon their customers.

In my inspection of farms, I have found them in fair condition with few exceptions. The majority of the producers are willing to cheerfully comply with the regulations governing the care and sale of milk.

Respectfully submitted,

STEPHEN C. DOWNS,

Inspector of Milk and Vinegar.

REPORT

OF THE

INSPECTOR OF MEATS, PROVISIONS, AND ANIMALS.

January 1, 1907.

To the Board of Health:—

GENTLEMEN:—I would respectfully submit the following report as Inspector of Meats, Provisions, and Animals:—

Inspections have frequently been made at the various wholesale and retail shops and conditions have been satisfactory.

FRUIT.

Very little fruit has come under my observation that was not salable. Attempts to sell over-ripe fruit by peddlers after dark have been speedily stopped by the police officer on the beat. One car of watermelons, delayed in transit, was condemned and removed.

INSPECTION OF CATTLE.

The annual fall inspection of cattle did not have any particular revelation. Cattle were generally in good order and well cared for. One case of tuberculosis was found.

RABIES.

During the past year rabies, which has been prevalent in many portions of our State, appeared here in Springfield. Since January 1st, 1906, eight dogs, whose owners were known to me, have been destroyed as rabid, as were also 342 stray dogs by the police. Numerous cases have occurred in the practice of the local veterinarians. One human life has been sacrificed.

While the restraining of dogs, or the consideration of the same, has annoyed a few I must say that our sixty day restraint of last season met with the approval of a great majority of our citizens. It was often said to me, "Can't that be made permanent?"

Respectfully submitted,

BENJ. D. PIERCE,

Inspector of Meats, Provisions, and Animals.

BOARD OF ALDERMEN, February 11, 1907.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, February 11, 1907.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, February 12, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., February 12, 1907.

Approved.

W. E. SANDERSON, *Mayor.*

PARK COMMISSIONERS.

DEPARTMENT OF PUBLIC PARKS.

COMMISSIONERS' REPORT FOR 1906.

To His Honor, the Mayor, and the City Council of the City of Springfield, Massachusetts:—

As required by the Revised Laws of the Commonwealth of Massachusetts of 1902, Chapter No. 28, Section No. 13, entitled "Of Public Parks, Playgrounds and Public Domain," the Board of Park Commissioners of the City of Springfield have the honor to submit their twenty-fourth (24th) annual report.

BOARD OF

PARK COMMISSIONERS,

SPRINGFIELD, MASSACHUSETTS.

(Organized September 29, 1883.)

FOR 1906.

NAME.	APPOINTED.	TERM EXPIRES.
Daniel J. Marsh,	1883	May 1, 1907
Herman Buchholz,	1901	May 1, 1908
Nathan D. Bill,	1899	May 1, 1909
Everett H. Barney,	1890	May 1, 1910
William E. Wright,	1901	May 1, 1911

COMMISSIONERS OF PREVIOUS YEARS.

NAME.	APPOINTED.	RETIRED.
*John Olmsted,	1883	1886
*Orick H. Greenleaf,	1883	1896
Walter H. Wesson,	1883	1890
*John D. McKnight,	1883	1890
Frederick Harris,	1890	1891
William F. Callender,	1891	1896
*James Kirkham,	1892	1893
Edward S. Bradford,	1893	1899
Azel A. Packard,	1896	1898
Charles E. Ladd,	1896	1901
Robert O. Morris,	1898	1901

Springfield, Mass., December, 1906.

Charles E. Ladd, *Secretary.*

---

* Deceased.

REGULAR EMPLOYEES.

Charles E. Ladd,	Superintendent,	13 Beech street.
Charles P. Nelson,	Foreman,	142 State street.
Walter G. Wheelden,	Foreman,	70 Crystal avenue.
John W. Smith,	Policeman,	173 Commonwealth ave.
James B. Costello,	Policeman,	12 Ormond street.
J. Alden Davis,	Florist,	36 Groveland avenue.
William J. Ryan,	Engineer,	1 Fairmount street.
Stetson G. Cotton,	Teamster,	43 Sumner avenue.
Harry Grindle,	Teamster,	730 White street.
John Kelliher,	Teamster,	1 Fairmount street.
Patrick Doyle,	Teamster,	Knox street.
Edward B. Little,	Domestic animals,	54 Commonwealth avenue.
William D. Pease,	Birds and fowls,	Allen street.
John B. Clark,	Animals,	49 Sumner avenue.
Henry B. Hastings,	Birds and animals,	145 Florence st.
W. A. Shaw,	Assistant,	25 Crystal avenue.
David Nelson,	Assistant,	Allen avenue.
Stanley Hargreaves,	Assistant,	Sumner avenue.

FINANCIAL STATEMENT.

DECEMBER 10, 1906.

RECEIPTS.

Balance from 1905,	$2,757 40	
Appropriation for 1906,	35,000 00	
Rents,	401 00	
Sundry sales,	331 75	
Sale of horses,	300 00	
Rent of steam roller,	165 00	
Sale of logs,	16 69	
Total,		$38,971 84

EXPENDITURES.

On account of small grounds:—		
Maintenance,	$2,481 76	
New work,	1,211 54	
Total,	$3,693 30	
On account of Forest Park:—		
Maintenance,	21,151 67	
Drives, walks, etc.,	4,454 99	
Buildings, structures, dams, etc.,	3,580 42	
Tools, fixtures, railings, etc.,	2,380 30	
Grading, turfing, etc.,	1,783 93	
Total,	$37,044 21	
Balance to 1907,	1,927 63	
Total,		$38,971 84

COURT SQUARE EXTENSION.

RECEIPTS.

Balance from 1905,	$19,748 65	
Receipts from rents and sales,	6,419 00	
Interest on balance,	562 00	
Total,		$26,729 65

EXPENDITURES.

December, 1905.		
M. D. Allen, care and collection,	$34 12	
S. R. Carlisle, coal,	29 01	
Homer Gibson, janitor,	15 00	
		$78 13
January, 1906.		
M. D. Allen, care and collection,	$36 31	
S. R. Carlisle, coal,	131 86	
Homer Gibson, janitor,	15 00	
Water Department, water,	22 83	
N. E. Tel. & Tel. Co., telephone,	5 00	
		211 00
February.		
M. D. Allen, care and collection,	$25 57	
S. R. Carlisle, coal,	28 31	
Homer Gibson, janitor,	15 00	
		68 88
Amount carried forward,		$358 01

Amount brought forward,		$358 01
March.		
M. D. Allen, care and collection,...	$23 83	
S. R. Carlisle, coal,..............	59 55	
Homer Gibson, janitor,...........	15 00	
R. W. Rice Coal Co., coal,........	8 00	
		106 38
April.		
M. D. Allen, care and collection,...	$34 89	
S. R. Carlisle, coal,..............	54 05	
Homer Gibson, janitor,...........	15 00	
		103 94
May.		
M. D. Allen, care and collection,...	$29 04	
Homer Gibson, janitor,...........	15 00	
N. E. Tel. & Tel. Co., telephone,...	10 00	
		54 04
June.		
N. E. Tel. & Tel. Co., telephone,...	$5 00	
Water Department, water,........	96 37	
M. D. Allen, care and collection,...	24 98	
S. R. Carlisle, coal,..............	21 27	
Homer Gibson, janitor,...........	15 00	
		162 62
July.		
M. D. Allen, care and collection,...	$23 86	
Homer Gibson, janitor,...........	15 00	
N. E. Tel. & Tel. Co., telephone,...	5 00	
Water Department, water,........	33 37	
		77 23
Amount carried forward,		$862 22

Amount brought forward,		$862 22
August.		
M. D. Allen, care and collection,...	$28 55	
S. R. Carlisle, coal,...............	18 93	
Homer Gibson, janitor,...........	15 00	
		62 48
September.		
M. D. Allen, care and collection,...	$30 60	
Homer Gibson, janitor,...........	15 00	
		45 60
October.		
M. D. Allen, care and collection,...	$57 88	
Homer Gibson, janitor,...........	15 00	
R. W. Rice Coal Co., coal,........	119 37	
		192 25
November.		
M. D. Allen, care and collection,...	$46 01	
Homer Gibson, janitor,...........	15 00	
Alexander Grant & Son, repairing roof, ...	12 25	
Charles E. Ladd, expenses to Boston,	5 00	
Water Department, water,........	50 80	
		129 06
Unexpended balance to 1907,....		$25,438 04
Total, ...		$26,729 65

PARK COMMISSIONERS' REPORT.

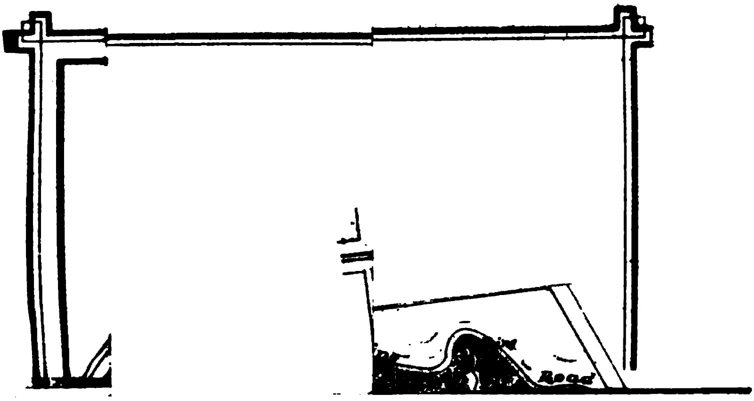
SPRINGFIELD, MASS.

The Board of Park Commissioners was organized for the year with Daniel J. Marsh, president, and Charles E. Ladd, secretary, the members of the board being Daniel J. Marsh, Everett H. Barney, Nathan D. Bill, William E. Wright, and Herman Buchholz.

It is gratifying to note the far-reaching interest manifested in our public parks, as shown by the great increase in the number of visitors, especially at Forest Park, which has been a resort for numerous picnic parties, not only from our own city, but from surrounding cities and towns to a distance of fifty miles or more. Even the generous accommodations which have been provided for visitors have, at times, been taxed to their utmost capacity.

In addition to the usual work of caring for and maintaining this park from day to day, such improvements have been made as seemed most needed. Early in the spring, during a severe storm, the easterly wall of the bridge on South street, over Pecousic brook, gave way, necessitating immediate repairs. The conditions at this place are quite inadequate for the safety and convenience of the public, and we recommend that a new bridge be built here according to the plans and specifications now on file with the city engineer. Should this matter be postponed much longer it will mean the rebuilding or strengthening of the present structure at considerable cost and inconvenience.

Nearly all the rustic foot bridges are in a poor state of preservation, requiring much expense each year to keep them



ted
the
on
al,
the

ive
ent
es,

int
se.
of

by
im
en

ve
at
ay

as
m
c-

id
er
p
d
n
n
e

ye
se
E
H

in
be
re
bu
m
be
ut

th
as
st
P
T
ar
br
n
p
of ... ges are in a poor state of
preservation, requiring much expense each year to keep *them*

in repair, showing that the life of such construction is limited to a few years. A small concrete bridge has been built on the bridle path, with side railings of iron and permanent seats on either side. Such bridges are durable as well as ornamental, and when covered with vines, are quite as attractive as the rustic ones.

Two of the small ponds in the ravine below the barns have been rebuilt, the banks regraded and cobbled, also new cement and stone dams built, replacing the earth and wooden structures, which were beyond repair.

With the many miles of road to care for, a liberal amount of our appropriation must be used each year for that purpose. During the past season more than five thousand square yards of macadam road have been built.

The wooden railings about the park are being replaced by a permanent two-rail iron fence, set in posts made of macadam and cement. About three thousand feet of this fence has been built at a cost of thirty cents a foot.

Three new roque courts and two new tennis courts have been added during the past season; the former are lighted at night, affording an opportunity to those who are unable to play during the day.

Our already interesting collection of birds and animals has been increased by the gift of fourteen large alligators from Dr. Fallon of Florida. This is undoubtedly the finest collection in any public park in the country.

The unusual interest shown in skating has created a demand for rinks throughout the city, and as most of these are under the care of this department, it has been difficult at times to keep them in perfect condition. A new building should be erected at the large skating pond at Forest Park for the accommodation of skaters in winter, and which could be used as a pavilion in summer. Such a building is greatly needed at this end of the park.

All but three of the buildings on Court Square Extension have been sold and removed, the remaining ones to be sold on or before April 1 and removed at once. This will permit of the beginning of improvements early in the year. While no plans for the development of this park have been adopted, by request two plans have been submitted by Messrs. Peabody & Stearns of Boston. The first one deals with the present conditions, including the railroad tracks and the very undesirable underpass leading to the river front and boat landing. The second plan shows the removal of the tracks as well as the underpass, with spacious stairways leading to the landing.

The many small parks and triangles throughout the city have been maintained with the usual care. At Calhoun Park new walks have been laid on the easterly and westerly sides, also a diagonal walk leading through the park from North street to Jefferson avenue. A drinking fountain has also been placed here.

The road leading through McKnight Glen has been resurfaced, but owing to the unsually heavy loads drawn over this road, together with the steep grade, it is difficult to maintain a macadam road in a satisfactory condition.

Below is a financial statement of the receipts and expenditures for the year in connection with our exhibit of birds and animals:—

RECEIPTS.

Balance from 1905,	$99 97	
Sale of domestic animals,	121 50	
Sale of poultry, etc.,	95 46	
Donations, cash,	55 00	
Sale of pigs,	42 50	
Cash prizes Valley Fair,	10 00	
Total,		$424 43

EXPENDITURES.

Cash paid for birds and animals,	$104 25	
Freight and express charges,	89 75	
Cash paid for water fowls,	61 75	
Balance,	168 68	
Total,		$424 43

DANIEL J. MARSH,
HERMAN BUCHHOLZ,
EVERETT H. BARNEY,
CHARLES E. LADD, *Secretary.*

Board of Park Commissioners.

Springfield, Mass., December 31, 1906.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

OUR PUBLIC PARKS.

1906.

NAME.	LOCATION.	ACRES.
Armory Street Reservoir Park	Armory street	7.64
Armory Street Triangle	Armory street	.02
Belmont Triangle	Belmont avenue	.03
Benton Lawn	State street	3.53
Calhoun Square	Chestnut street	2.43
Carew Triangle	North Main street	.08
City Hall Square	Pynchon street	.16
Clarendon Fountain	Clarendon street	.10
Concord Terrace	Concord terrace	.15
Cottage Hill Grove	Indian Orchard	3.34
Court Square and Extension	Main street	3.87
Crescent Terrace	Crescent terrace	.48
Dartmouth Fountain	Dartmouth street (end of)	.15
Dartmouth Terrace	Dartmouth street (end of)	.39
Dorchester Rest	Dorchester street (end of)	.11
Florentine Garden	Spruceland avenue	.17
Forest Park	Sumner avenue	475.21
Garfield Triangle	Garfield street	.13
Gunn Square	Westford avenue	.80
Kenwood Park	Belmont avenue	.39
Kibbe Fountain	Federal street	.07
Lafayette Rest	Lafayette street (end of)	.10
Magnolia Terrace	Magnolia terrace	.29
Maplewood Terrace	Maplewood terrace	.76
Marengo Park	Marengo park	.46
Massachusetts Terrace	Massachusetts avenue	.36

NAME.	LOCATION.	ACRES.
McKnight Glen	Ingersoll grove	2.92
McKnight Triangle	Bay street	.62
Merrick Terrace	State street	.55
Mill Street Fountain	Mill street	.05
Mill River Rest	Mill street	.08
Public Lawn	Main street	.53
Sargeant's Rest	North Main street	.24
Smith's Triangle	Maple street	.09
Stearns Square	Bridge street	.46
Tapley Playground	Sherman street	1.07
The Levee	Elm street (end of)	1.11
Thompson Triangle	St. James avenue	1.06
Watershops Triangle	Walnut street	.18
Westford Circle	Westford avenue	.35
West Street Triangle	West street	.13
Winchester Square	State street	.62
Total, forty-two parcels,		511.28

INVENTORY.

ROLLING STOCK, TOOLS, ETC.

4 two horse carts,
2 two horse watering carts,
1 two horse wagon,
1 two horse low-down wagon,
2 two wheel dump carts,
1 one horse light wagon,
1 one horse delivery wagon,
4 two horse sleds,
1 one horse mowing machine,
1 two horse mowing machine,
1 hay rake,
1 hay tedder,
6 pairs double harnesses,
2 single work harnesses,
1 driving harness,
1 dump cart harness,
10 horse blankets,
2 lap robes,
9 canvas covers,
2 tie weights,
1 street halter,
9 halters,
8 feed bags,
5 garden wheelbarrows,
8 wheelbarrows,
1 one horse lawn mower,
14 lawn mowers,
6 scythes and snaths,
3 bush scythes and snaths,
12 hoes,
3 garden rakes,
6 hay rakes,
12 lawn rakes,
18 pickaxes,
12 mattocks,
2 wheeled weeders,
2 hand weeders,
24 iron shovels,
5 round-pointed shovels,
40 iron shovels,
12 wooden snow shovels,
2 potato forks,
6 manure forks,
6 hay forks,
2 hay knives,
6 turf cutters,
2 macadam rakes,
3 long handle spades,
1 ice chisel,
1 drilling machine,
1 hand drilling machine,
1 portable furnace,
1 chain hoist,
1 hydrant reducer,
1 hydrant cock,
1 mowing machine sharpener,
10 grass hooks,
6 hand axes,
2 crosscut saws,
1 meat saw,
1 buck saw,
1 metal saw,
6 hand saws,
3 keyhole saws,
1 saw set,
3 smoothing trowels,
6 masons' trowels,
3 masons' hammers,
1 putty knife,
1 cleaver,
1 meat chopper,
3 greenhouse trowels,

2 pairs gas pliers,
100 enamel iron signs,
1 washer cutter,
3 stone hammers,
1 paving hammer,
12 nail hammers,
2 small hammers,
2 striking hammers,
2 nail pullers,
9 monkey wrenches,
4 Stillson wrenches,
3 wire cutters,
2 staple pullers,
1 step ladder,
1 8 ft. ladder,
1 12 ft. ladder,
1 20 ft. ladder,
1 20 ft. extension ladder,
1 30 ft. extension ladder,
2 wire stretchers,
3 sets pulley blocks,
225 ft. rope,
6 pairs ice tongs,
3 iron wedges,
2 jack screws,
3 iron vises,
1 door clamp,
1 draw shave,
2 iron anvils,
4 crowbars,
8 heavy chains,
7 binder chains,
6 iron pounders,
6 scoop shovels,
1 long handle scoop shovel,
1 7 ft. sounding rod,
12 street brooms,
4 walk cleaners,
6 hand carts,
1 Orchard Monarch sprayer,
1 wood stove,
1 set twist drill bits,
8 drills,
1 screw plate, tap and dies,
1 tap wrench,
1 set Schnell bits,
1 1½ in. bit,
2 bit braces,
1 pair tinner's snips,
1 leather punch,
4 watering pots,
2 stone drills,
2 ice picks,
3 tree pruners,
2 snow plows,
1 iron tamping bar,
1 cant hook,
1 force pump,
2 sets pipe dies and cutters,
5 pairs pruning shears,
2 pairs hedge shears,
1 steel square,
1 sheep shearing machine,
1 horse clipping machine,
1 pair sheep shears,
1 stone boat,
1 tripod,
3 grindstones,
2 levels,
12 gross screws,
2 100 ft. tape measures,
1 25 ft. tape measure,
3 zigzag rules,
1 hand truck,
2 wooden ice planes,
1 iron ice plane,
1 root cutter,
1 seed sower,
1 plain grate,
2 wooden hand clamps,

1 sawing machine,
300 lbs. nails,
6 brooms,
5 tool boxes,
500 settees,
1 iron settee,
9 ball field seats,
100 feed dishes,
500 ft. hose,
200 ft. fire hose,
2 incubators,
4 brooders,
30 bags Portland Cement,
2 1½ bu. baskets,
1 8 bu. basket,
4 two horse snow scrapers,
2 clearing scrapers,
2 plows,
1 wheel harrow,
2 tooth harrows,
1 hand roller,
1 leveling instrument,
3 pairs eveners and whiffletrees,
7 galvanized iron pails,
8 wooden pails,
12 mouse traps,
1 fiber washtub,
1 pair hip boots,
1 greenhouse sprayer,
2 oil faucets,
6 papier-maché pails,
1 set grain measures,
2 wagon jacks,
1 hydrant wrench,
1 steam roller,
2 steam roller street signs,
1 Winchester hot water heater,
3 hoop nets,
6 ash cans,
2 ash sifters,
1 oil stove,
2 platform scales,
1 steelyard,
18 steel traps,
2 fire extinguishers,
1 80-qt. mixer,
5 milk cans,
2 milk pails,
1 milk strainer,
1 spring balance scales,
10 lanterns,
6 red lantern globes,
1 time clock,
2 "Ever Ready" torches,
2 "Black Jacks,"
2 pairs handcuffs,
3 bull rings,
1 Benck saw,
30,000 flower pots,
115 cold frame sash,
3 boxes greenhouse glass,
4 see-saws,
4 tennis nets,
24 roque balls,
6 canvas bases,

OFFICE FURNITURE.

1 Underwood typewriter,
2 typewriter desks,
1 set Wood's "Animate Creation,"
1 roll top desk,
2 arm chairs,
30 chairs,
1 hat rack,
1 table,
1 bookcase,
1 letter filing case,
1 atlas of Springfield,
1 letter press,
1 set Revised Laws of Massachusetts and index.

CITY FORESTER.

CITY FORESTER'S REPORT.

To the Honorable, the Mayor, and City Council.

Gentlemen:—The ninth annual report of the Department of Forestry, for the year ending December 10, 1906, is hereby respectfully submitted.

RESOURCES.

Appropriations and transfers,	$12,420 77

EXPENDITURES—BILLS APPROVED.

Forestry, other than for insect extermination:—		
Labor,	$4,441 59	
Tools (new),	67 11	
Tools (repairs),	189 81	
Fertilizers, and mending trees,	407 15	
Office expenses,	96 62	
Building account, storehouse, etc.,	89 24	
Barn account, repairs, keeping horse, etc.,	318 97	
New trees, soil and planting,	304 57	
Miscellaneous,	70 10	
For the control of injurious insects:—		
Labor,	3,402 64	
Machinery and spraying tools (new),	409 79	
Repairs on spraying tools,	103 42	
Insecticides,	386 17	
Street signs and guideboards,	1,694 32	
(To this should be added $151.45 charged to horse keeping, storage, office expenses, etc., making a total of $1,845.77.)		
Smoke inspection,	449 80	
		$12,441 30

Cost of caring for street trees, other than insect work:—

Labor,	$4,441 59	
Repairs on tools,	189 81	
Fertilizers, and mending trees,	407 15	
Depreciation in tools,	346 15	
From building, barn and office accounts,	302 91	
		$5,687 61

Cost of protecting trees from injurious insects:—

Labor,	$3,402 64	
Repairs on tools,	103 42	
Depreciation in tools,	269 57	
From building, barn and office accounts,	50 48	
Insecticides used,	401 17	
		$4,227 28

SUMMARY OF INVENTORY.

Tools, forestry, on hand December 10, 1905,	$1,317 51	
Bought during the year,	67 11	
	$1,384 62	
Less 25% for depreciation,	346 15	
		$1,038 47
Machinery and tools for insect control on hand December 10, 1905,	$670 51	
Bought during the year,	407 79	
	$1,078 30	
Less 25% for depreciation,	269 57	
		808 73
Present value of tools and machinery,		$1,847 20
Insecticides on hand,		75 00
Miscellaneous property:—		
Storehouse, at Mill River lane,	$124 80	
Store sheds, at Mill River lane,	40 00	
Amounts carried forward,	$164 80	$1,922 20

Amounts brought forward,	$164 80	$1,922 20
Tenement, at Mill River lane,	96 40	
Office fixtures, 43 Bridge street,	140 40	
	$401 60	
Less 10% for the year's use,	40 16	
		361 44
Hay and grain,		60 00
Barn fixtures, $75.00, less 25% for the year's use,		56 25
Horse,		225 00
Street signs, fixtures and tools,		998 00
Tree guards,		5 00
Trees at Magnolia terrace grounds,		200 00
Net value of property,		$3,827 89

In reviewing the work of the year, the most serious question has been the suppression of injurious insects. The previous winter being unusually warm, the conditions were favorable for their preservation: and all kinds of insect pests were exceedingly abundant. Especially was this true with the Elm-leaf Beetle, which we found more abundant the past summer than at any time since 1898. This was partly due to the fact that so little spraying was done in 1905. Unusual numbers of this insect were also found throughout New England, with a few exceptions. I made a personal inspection of the Connecticut valley from the Vermont line to New York city and found that the foliage of our elms compared favorably with, and was in much better condition than those in some other localities. As soon as conditions would admit we directed our efforts towards the districts that in the early part of the season gave evidence of being the worst infested, continuing to other districts, as long as our funds would permit, until the end of the season of the first brood. Later a second brood appeared prolonging the season several weeks, for which we did not spray; yet the foliage in some sections was so badly eaten that the trees cast their leaves for the second time.

Spraying the foliage with arsenate poison is the best protection our elms can have against this, their worst enemy. In city streets it must be done in a way quite different from the methods used in parks or grounds free from buildings. This is slow and expensive, but effectual, especially if the work can be gone over twice in the season instead of once, as we have been obliged to do. After the Elm-leaf Beetle larvæ were through feeding, and after they began to run, we sprayed the trunks and swept up many thousand of the larvæ, pupæ and half formed beetles. It was estimated that for ten days we destroyed fully half a bushel a day, besides many that citizens killed on trees in front of their houses.

I want to offer a word of caution about using scalding hot water on the trunks of elms, to destroy these insects. On general principles it is a dangerous practice as there is danger of injury to the tender inner bark, or cambium. Better brush the worms away from the tree, where they may be treated with hot water, or killed in any way you like. There was an urgent demand from citizens for help in protecting the trees on their grounds, and as there was no one in our city equipped to do this work, the undersigned detailed a foreman and pump to do such work; he supplying his own help and collecting therefor. As all spraying should be done at about the same time we cannot well spare the apparatus. Private enterprise has offered to care for trees on private grounds, if the city will supply what pumps may be needed during the spraying season. As it is for our mutual interests that injurious insects be controlled as far as possible, I would recommend that two extra outfits be procured for this use.

Another pest, commonly known as the Elm-bark Scale, has developed very rapidly in some sections of the city; this must be treated early this coming spring, as it is very destructive to the young growth. The Spiny Elm Caterpillar was very abundant in June; but as its feeding season lasts for only about ten days, the damage is not great. A colony will usually eat the foliage for about a yard square. We take down all we find of them, which prevents them from becoming as plentiful as in some sections. A few other injurious insects have had attention: such as the white marked Tussock Moth, cottony Maple Louse, Web Worm, woolly Elm-leaf Louse and some scale insects. We have not found the dreaded Gypsy Moth or the Brown Tail Moth, so destructive in some sections. We inspect our borders frequently, but so far we are free from these pests; yet with the increased means for transporting these pests, such as cross country riding, we hardly expect to keep free.

Diseased trees are more abundant on paved streets than others, because the conditions for healthy tree growth are lacking and because of injuries caused by street improvements. While the cause of these diseases can be easily traced, their cure is not so easy, especially when a tree has become weakened from "injurious practices," the greatest of which is the cutting of roots. We have had four trees blown over because their main brace roots had been cut off in previous years to accommodate street changes. Soon after these wounds were made underground, disease entered, destroying what brace roots were left, so that a wind in the right direction easily tips the trees over. As there are often enough feed roots to keep the foliage in fair condition, the true condition of the tree is not always indicated. The illustration shows all the roots there were to a sugar maple that was blown over on Dickinson street during one summer night's storm. Here the walk was put in and the street graded about 1899: roots were freely cut to enable the workmen to more conveniently do their work. But few species of trees will endure such cutting, and no hard wood tree can. The trunk of the tree shown in the photograph was perfectly sound above ground. I show this to more fully illustrate the great injury that comes to trees from such wounds, and to emphasize the rule now in effect, that "No roots shall be cut without a permit from the Forestry Department."

A goodly number of trees have been set this year, principally oaks and Norway maples, besides adding to our nursery for future use. As we have said before, all planting, as well as the care of public trees, should be under the care of the municipality, that the trees best suited to the locations may be chosen. While abutters under the existing ordinances may not have the right to plant trees in front of their property, this rule is not enforced, and trees often entirely unsuited to the location are planted. Therefore I would recommend that an ordinance be enacted that will direct that certain trees, to be named by the City Forester, shall be set out within a given time; otherwise he shall do the work, assessing the cost upon the property in front of which the trees are planted. All this would be towards a "more beautiful Springfield." Several trees of good size have been transplanted to accommodate street improvements, and rather more than usual, which have become weakened by storm or disease, or because they have died, have been taken down. Fewer trees have died from gas poison during the past year than for some time. The trimming of trees along the public streets has been continued as far as it was possible, but, in order to keep this work up close, a larger force should be employed.

STREET SIGNS.

This part of our work has made good progress during the year; in all about a thousand name-plates have been purchased, a part of which have been put up and the remainder will be placed during the winter. Twenty-five posts like that shown in the photograph, which were adopted last year as the permanent sign post, have been set, and more of these will be put up as the older posts give out.

WIRES IN TREES.

There has been continued neglect on the part of those responsible for wires in trees, to remove them when requested, and considerable damage has resulted. The city is one of the offenders, violating its own ordinances, as well as the public statutes, as the fire alarm wires in some sections are continually doing damage, although several requests have been made to the superintendent to have them changed.

Some have thought that guy wires could be attached to trees by means of eye-bolts in such a way as to do no harm. We permitted this to be done at the corner of Spring and Worthington streets, to avoid setting a guy pole. The illustration shows the tree, a bolt passing through each of the two main branches, one of which, some twelve inches through, was broken off during a wind storm in August. These wires were very rigid and did not allow the natural sway of the tree, so that when the storm came from the right direction, it was too much for a good rock maple to resist.

THE ABATEMENT OF SMOKE.

The abatement of the Smoke Nuisance has been continued with success. In common with others who have the abatement of smoke in charge, we have conducted, from the first, a campaign of persuasion, rather than of compulsion; which accounts for so few complaints, as suits have not been brought until *every other means* had been exhausted. To prevent smoke, simply secure *complete combustion.* It is a well known fact, that there are several devices or systems which do this, and at a saving in fuel, because *all* the fuel is consumed, instead of quantities passing off into the air in the form of smoke. So it is surprising that owners of steam plants, from an economic standpoint, will continue to allow their furnaces to smoke; for complying with the law means saving money. There being lack of respect for this law with some, it became necessary early in the year to bring suit against the worst offenders. Six prosecutions were made, with convictions in all cases. These were carried to the higher courts, where the verdict of the lower court was affirmed, and the fines paid. In several other cases, suit was deferred, upon the promise of the parties to immediately comply with the law. There have been 826 inspections made during the year and while our law admits of smoke for two minutes at a time or not more than eight minutes during the hour, seventy-four of these inspections show *no smoke.* What some of our manufacturers are doing, others can do. Although much has been done to rid our city of smoke, yet more remains to be done, especially to induce the railroads to do their part in abating the nuisance. Considerable difficulty is experienced in some cases, with low pressure heating plants, all of which by making slight changes in their furnaces, can comply with the law's requirements. I would advise the owners of such plants to first consult a technical engineer who has made a study of the subject. With the coöperation of all we *can* have a city *free from smoke.*

Thanking His Honor and the City Council for their kind support,

Respectfully submitted,

WILLIAM F. GALE,

City Forester.

Board of Aldermen, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

Common Council, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

Mayor's Office, Springfield, Mass., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

LICENSE COMMISSIONERS.

REPORT OF THE

BOARD OF LICENSE COMMISSIONERS.

To His Honor, the Mayor, and the City Council of the City of Springfield.

The Board of License Commissioners beg to submit their annual report for 1906.

For the purpose of comparison as to the number of licenses of each class granted, and the receipts from them during the last twenty-five years, we insert from the Municipal Registers the following figures:—

YEAR.	CLASS.						Total.	Receipts.
	1st.	2d.	4th.	5th.	6th.	Club.		
1882	32	3	28	6	....	....	69	$13,400 00
1883	40	7	39	10	....	....	96	25,900 00
1884	....	....	....	....	27	....	27	27 00
1885	66	11	73	8	....	....	158	46,225 00
1886	26	4	28	2	1	....	60	20,850 00
1887	....	....	....	....	....	....	....	....
1888	60	6	40	4	26	2	138	48,526 00
1889	28	1	8	2	31	2	72	47,731 00
1890	26	....	9	2	27	1	65	51,227 00
1891	30	....	12	2	83	2	79	60,783 00
1892	38	....	4	2	32	2	78	63,832 00
1893	39	....	3	2	31	8	78	65,231 00
1894	39	....	3	2	30	4	78	65,530 00
1895	39	....	3	2	30	4	78	65,784 00
1896	44	....	4	2	36	4	90	76,237 00
1897	45	....	4	2	34	3	88	76,278 17
1898	44	....	5	2	35	3	89	77,134 00
1899	44	....	5	2	34	5	90	77,636 00
1900	44	....	5	2	34	5	90	84,535 00
1901	53	....	57	2	36	4	*100	100,709 00
1902	54	1	59	2	35	3	*100	102,939 00
1903	54	1	58	3	36	3	*101	102,236 00
1904	53	1	58	3	35	4	*101	102,186 00
1905	53	1	58	3	36	4	*99	102,186 00
1906	53	1	58	3	36	4	*102	100,391 00

*No. of Licensed Places.

The licenses granted to date of this report, to expire May 1, 1907, are as follows:—

FIRST AND FOURTH CLASSES.

To sell liquors of any kind (Innholders, $1,800 each).

Buckley, D. H. & E. L., & Co.,	256-268 Main and 2-20 Hampden streets.
Chapin, William H.,	Corner Main and Railroad streets.
Edgar & Hartenstein,	222-224 Main street.
Gilmore Hotel Co.,	418-428 Main street.
Grise, Charles, & Co.,	13 Oak street, Indian Orchard.
Hartnett, P. J., & Co.,	243-249 Main street.
Heydt, John,	179 Main street, Indian Orchard.
Katz, Louis,	526-534 Main street.
Lerche, Emil, & Co.,	93-95 State street.
Marsh, H. E., & Co.,	Corner Main and Liberty streets.
Payne, Frank,	92-96 State street and 12-14 Ct. House pl.
Quilty & Kelley,	508-522 Main street.
Shaw, John T.,	406 Main and 10-12 Pynchon streets.
Sievers, D. H., & Co.,	Corner Hillman and Barnes streets.
Splaine Bros.,	265-269 Main street.
Worthy Hotel Co.,	303 Main street.

Number of Innholders' First and Fourth Class Licenses, 17.

FIRST AND FOURTH CLASSES.

To sell liquors of any kind (Common Victualers, $1,500 each).

Armstrong, G. W., Dining Room and News Co.,	Union Passenger Station.
Baab, A., & Co.,	3 Pynchon street.
Beach & Kane,	171 A and 173 Chestnut street.
Breglio, P. A., & Co.,	300 Worthington and 160-164 Dwight streets.
Burke, Thomas J., & Co.,	521 Main and 4 Stockbridge streets.
Cavanagh, D. P., & Co.,	333 and 337 Water street.
Coogan, John P., & Co.,	Corner Sanford and Market streets.
Coogan, Luke J.,	115 Worthington street.

Coughlin, Thomas W., & Co.,	116 State street.
Crowley, Michael J.,	485 State and 3 Walnut streets.
Daley Co.,	193 Main street.
Duquette, A. H., & Co.,	552 Main street.
Fitzgerald, Thomas J.,	225 Main street.
Hart, Vern W.,	199½-201 Main and 2 Liberty streets.
Higgins, Joseph W.,	545 Main street.
Kelley, A., & Co.,	67 Bridge street.
Lange, Theodor, & Co.,	105 Bridge street.
Lennehan, J. J., & Co.,	215-217 Worthington street.
Lubold, H. E., & Co.,	11 Lyman street.
McCarthy & Cone,	11 Hampden street.
McGrath & Co.,	207-209 Chestnut street.
Murphy, C. J., & Co.,	315 and 319 Worthington and 165 Dwight streets.
Murphy, W. J., & Co.,	45-47 Market street.
O'Brien & Reagan,	121 Lyman street.
Otis, Patrick F.,	71-73 Market street.
Phillips, C. W., & Co.,	2 Bridge and 69 Water streets.
Roos, George J., & Co.,	63 Water street.
Ryan, S. A., & Co., Inc.,	179 and 183 Main street.
Scully, Jeremiah F.,	662 Main street.
Shea, D. J., & Co.,	108-110 State street.
Sollace, George E.,	188-190 Main street.
Toomey & Cody,	145-147½ Main and 7 Congress streets.
Walsh, John J.,	23 Walnut street.
Waverly Liquor Co.,	15-19 Sanford and 25 Market streets.
Winkler Bros.,	15 Bridge and 79 Water streets.
Young, William M.,	187-189 Main street.

Number of Common Victualers' First and Fourth Class Licenses, 36.

SECOND CLASS.

To sell malt liquors, cider, and light wines, to be drunk on the premises (Innholders, $500).

Barr, The E. C., Co.,	384-388 Main street.

Number of Innholders' Second Class Licenses, 1.

FOURTH CLASS.

To sell liquors of any kind, not to be drunk on the premises (Wholesale Dealers, $1,500 each).

Barry, Garratt S.,	113 Bridge and 6-8 Barnes streets.
Coats, E. M., & Co., Inc.,	5-11 Market street.
Flanaghan, Terrence, & Co.,	100 State street.
Jefferson & Deely,	192 Worthington street.
Tone, Philip, & Co.,	591 Main and 125 Union streets.

Number of Fourth Class Licenses, 5.

FIFTH CLASS.

To sell malt liquors, cider, and light wines, not to be drunk on the premises (Brewers, $2,250 each).

Liberty Brewing Co.,	Corner Liberty and Charles streets.
Springfield Breweries Co.,	Fort, Water and Hampden streets.
Springfield Breweries Co.,	1273 State street.

Number of Fifth Class Licenses, 3.

SIXTH CLASS.

To sell liquors of any kind for medicinal, mechanical, and chemical purposes only (Druggists, $1.00 each).

Adams, Henry,	429 Main street.
Alden, Charles P.,	482 Main street.
Anderson, Edmund C.,	360 Bay street.
Barker, Irvin R.,	242 Main street.
Bassett, Henry J.,	701 Main street.
Beauvais, Joseph H.,	570 Main street.
Brown, William A.,	410 Main street.
Carmody, John J.,	461 State street.
Chenette, Joseph E.,	172 Main street, Indian Orchard.
Clancy, Daniel M.,	152 Main street, Indian Orchard.
Comstock, Harry L.,	774 Main street.
Cunningham, Alex. W.,	272 Worthington street.
Delehanty, James W.,	492 Mill street.
Dickinson, Homer F.,	279 North Main street.

Elsey, Harry P.,	593 Main street.
Erard, Philip V.,	369 Chestnut street.
Fortier, Lawrence H.,	827 State street.
Keefe, Daniel F.,	180 Hancock street.
Leonard, Edwin F.,	72 Main street.
Lerche, Albert E.,	325 Main street.
Longtin, R. E.,	245 Bay street.
Morse, Winslow B.,	162 Main street, Indian Orchard.
Noble, William B.,	167 Chestnut street.
Pease, Samuel S.,	463 Main street.
Pierce, Stephen A.,	298 Belmont avenue.
Richards, Stanley A.,	188 State street.
Richmond, Edward A.,	296 Hancock street.
Ryan, Charles V.,	161 Main street.
Sadler, William L.,	530-532 Main street.
Sexton, Charles S.,	477 State street.
Sexton, J. Albert,	372 Belmont avenue.
Smith, John D.,	271 Main street.
Taylor, Albert W.,	Corner Carew and Chestnut streets.
Thompson, Clifford P.,	503 Main street.
Vogel, J. Bennett,	232 Main street.
Wheeler, Fred M.,	802 State street.

Number of Sixth Class Licenses, 36.

CLUB.

To distribute and dispense intoxicating liquors to members ($250 each).

B. K. Bruce Club,	542 Main street.
Nayasset Club,	121 State street.
Springfield Lodge of Elks, No. 561,	Cor. Chestnut and Worthington streets.
Springfield Turn Verein,	79-83 State street.

Number of Club Licenses, 4.

Number of First, Second, Fourth, and Fifth Class Licenses, . .	62
Number of Sixth Class Licenses, ...	36
Number of Club Licenses, ...	4
	102

On June 4th William M. Titus succeeded Charles H. Beckwith as Chairman and Secretary of the Commission, Mr. Beckwith's term of office having expired.

The expenses of the Board for the year are as follows:—

Clerk hire,	$100 00
Postage and incidentals,	44 95
Printing and advertising,	121 75
Rent of office,	335 67
Salary of Secretary,	250 00
Total,	$850 67
Amount received for recording licenses,	161 00
Net expense of Board,	$689 67

Respectfully submitted,

WM. M. TITUS,
WM. C. HAYES,
CHARLES A. ROYCE,

Board of License Commissioners.

Board of Aldermen, December 17, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

Common Council, December 17, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 18, 1906.

E. A. NEWELL, *City Clerk.*

Mayor's Office, Springfield, Mass., December 18, 1906.

Approved.

F. W. DICKINSON, *Mayor.*

BUILDING INSPECTOR.

REPORT OF THE

BUILDING INSPECTOR.

SPRINGFIELD, MASS., December 27, 1906.

To the Honorable Mayor and the City Council.

GENTLEMEN:—The following is the report of the work done during the year, ending December 1, 1906:—

There were 261 inspections of buildings in process of erection and reconstruction. Eight buildings have been examined for safety, and a Board of Survey considered the reconstruction of one building. The Mayor and Aldermen have granted 52 permits during the year. These were for 14 additions to dwellings; the erection of 26 sheds; and the raising and moving of 12 buildings. Twenty-seven hotels and two boarding houses, containing 1,371 rooms, were inspected to ascertain if the law relating to fire escapes had been complied with; and a report of the condition of the same was made to the Chief of the District Police at Boston.

The Board of Examiners of Plumbers, consisting of one member of the Board of Health, the Inspector of Buildings, and a practical plumber, have examined during the year 28 persons. Twenty-seven were accepted, and one was not recommended. Each applicant has an examination as to his practical knowledge of plumbing, house drainage, water supply, ventilation. He is also tested as to his chart reading, and, by oral examination, on his general information relating to the business.

The city property, consisting of one house on Norwood street, two on Broad street, and one on Elmwood street containing eleven tenements, has been cared for and rented most of the time during the year, and the sum of $1,256.00 collected for rents, and paid over to the City Treasurer.

The introduction of concrete into the construction of buildings requires some additions to the ordinances in order to conform to the recommendations of the insurance companies, comprising the National Board of Underwriters, and, if their code of building laws is adopted, it will necessitate the employment of additional inspectors, which has become necessary to secure proper enforcement of the building law we now have.

An addition to the duties of this department, by the decision of the Attorney-General, is the inspection of elevators, both passenger and freight, which duties the State Inspectors have previously performed. Now, the City Inspector must examine and approve the construction work and devices for making these elevators safe and secure. These additional duties and requirements will necessitate an appropriation to carry on the work of this department, according to modern methods. At the present time there is no appropriation, nor has there been since this department was organized.

The old records were destroyed in the City Hall fire, and the future records should be preserved in a fireproof safe, and filed in a systematic manner.

Respectfully submitted,

A. P. LESHURE,

Inspector of Buildings.

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

LIGHTING STREETS.

REPORT OF THE

Committee on Lighting Streets.

To the Honorable City Council of the City of Springfield.

Gentlemen:—The Committee on Lighting Streets respectfully submit the following report of business transacted in this department for the year ending December 10, 1906.

FINANCIAL STANDING.

Appropriation,	$80,000 00
Receipts,	281 77
Total,	$80,281 77
Expenditures,	80,265 57
Balance,	$16 20

Arc lights installed,	22	
Arc lights discontinued,	1	Net gain 21
Series incandescent installed,	1	
Series incandescent discontinued,	2	Net loss 1

The 1 arc light that was discontinued was replaced by a series incandescent light and the 2 incandescent lights were replaced by arc lights, making the street lighting system at the close of this year, 1,008 arc and 62 series incandescent lights; consisting of 88 top lights, 832 arm lights; 88 lights with iron base with gooseneck fixtures. Fed from underground service, 153 arc lights; from overhead service, 855 arc and 62 series incandescent lights.

The Knox "Model F Surrey" automobile has continued to do good service and increased the efficiency of the department.

This committee feel that they are justified in recommending the purchase of a machine of greater horse power and turning over present machine in trade, as on several occasions it could not do the work desired and we feel that a machine of greater horse power could do more efficient work for this department, City Treasurer's department, and for use of City Government Committees, as it has proved its worth to all.

It has been used during the year of 1906 as follows:—

Street Lighting Department,	7,498 miles.
City Treasurer's Department,	622 miles.
City Government Committees,	175 miles.
Water Department,	153 miles.
	8,448 miles.

Your committee desire to express their appreciation of the efficient services rendered by the superintendent, W. J. Converse, and to extend their thanks to His Honor, the Mayor, and City Council for the courtesies shown them during the year.

The following tables show the increased appropriations, expenditures, inventories of property from 1897 to 1906 inclusive:—

EXPENDITURES AND INVENTORIES PER YEAR.

	Expenditures.	Increase.	Inventory.	Increase.
1897	$52,150 96			
1898	55,822 61	$3,671 65	$14,195 47	
1899	58,868 87	3,046 26	15,396 20	$1,200 73
1900	61,167 76	2,298 89	14,967 38	*428 82
1901	65,483 03	4,315 27	17,483 80	2,516 42
1902	70,268 98	4,785 95	18,846 57	1,362 77
1903	74,082 69	3,813 71	21,828 24	2,981 67
1904	76,337 13	2,254 44	24,758 98	2,930 74
1905	78,668 21	2,331 08	27,737 67	2,978 69
1906	80,265 77	1,613 56	27,140 24	*641 43

*Decrease.

Appropriations and Receipts.		Increase.	Balance Unexpended.
1897 . . .	$53,003 10		$852 14
1898 . . .	57,077 50	$4,074 40	1,254 89
1899 . . .	60,452 60	3,375 10	1,583 73
1900 . . .	63,157 26	2,704 66	1,989 50
1901 . . .	66,242 16	3,084 90	759 13
1902 . . .	70,737 11	4,494 95	468 13
1903 . . .	74,194 11	3,457 00	111 42
1904 . . .	76,727 71	2,533 60	390 58
1905 . . .	79,348 55	2,620 84	680 34
1906 . . .	80,281 77	933 22	16 20

NEW ARC LIGHTS INSTALLED, 1906.

Location.	Character.
Randall avenue,	Mastarm
Quincy street, 100 feet west of Stebbins street,	Mastarm
Fort street, opposite No. 24,	Gooseneck
Liberty street, opposite Imperial park,	Top Light
Yale street, west line of No. 119,	Mastarm
Massachusetts avenue, between Nos. 20 and 26,	Mastarm
Commonwealth avenue and Washington street,	Mastarm
Woodbine avenue, between Nos. 35 and 29,	Top Light
Orleans street, between Nos. 29 and 33,	Mastarm
Junction of South and Locust streets,	Mastarm
Liberty street, opposite No. 1115,	Mastarm
Corner of Dickinson and Horace streets,	Mastarm
Railroad street, 150 feet from Main street,	Gooseneck
Waltham avenue, near bend in street,	Mastarm
Long Hill street, midway between South street and Washington boulevard,	Mastarm
Stebbins street, between Nos. 20 and 36,	Mastarm
Cherry lane, about 200 feet from Central street,	Mastarm
Fairfield street, west side of No. 44,	Mastarm
Ozark street, between Nos. 21 and 35,	Mastarm
Birnie avenue, opposite Medford street,	Mastarm
Baxter avenue, near Wilbraham avenue,	Top Light
Linden street, 75 feet west of line of No. 74,	Mastarm

One Arc Light discontinued on South street.
One Series Lamp put in its place.

Accompanying this report, we submit a detailed inventory of the property of this department.

Respectfully submitted,

FRED S. LADD,
A. W. ALLEN,
GEO. H. HADD,
WILLIAM A. DODGE,
WILLIAM H. GRADY,
Committee on Lighting Streets.

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

STOCK ON HAND NOT IN USE DECEMBER 10, 1906.

7	single goosenecks at $15.50,	$108 50
1	double gooseneck,	27 00
5,000	ft. mastarm cable,	93 93
1	derrick,	157 00
1	pitch kettle,	140 00
19	mastarms at $15.00,	285 00
4,000	charts for recording meters,	19 50
9	iron poles,	243 00
	Paints, oils,	6 00
336	chestnut poles at $6.00,	2,016 00
8	35 ft. poles,	80 00
5	30 ft. poles at $8.00,	40 00
20	hard pine tops at $4.00,	80 00
512	pole steps at 8½ cents,	43 52
285	detachable pole sockets at 6 cents,	17 10
69	pole steps at 15 cents,	10 35
	Pulleys and rope,	15 00
5	gross screws, 2 in., No. 16,	2 80
5	gross screws, 1¼ in., No. 13,	3 63
2	pairs rubber gloves,	1 00
	Mastarm repair parts,	96 00
1½	ton stove coal,	10 88
	Hay and oats,	18 00
	Ladders,	5 00
300	coach screws at $1.21,	3 63
1,000	lbs. pitch,	10 00
24	iron cross arms,	38 40
	Total,	$3,571 24

PROPERTY IN USE DECEMBER 10, 1906.

88	iron poles and tops at $29.00,	$2,552 00
920	lamp poles at $4.00,	3,680 00
832	mastarms at $15.00,	12,480 00
88	goosenecks and hoods at $15.50,	1,364 00
3	harnesses,	60 00
1	Concord wagon,	100 00
1	heavy business wagon,	150 00
1	light business wagon,	88 00
1	reach wagon,	43 00
1	pole truck,	30 00
1	business sleigh,	30 00
1	light sleigh,	40 00
	Blankets, robes, etc.,	36 00
1	horse,	250 00
	Storehouse sheds,	570 00
12	recording ampere meters,	616 00
1	portable volt meter,	75 00
1	portable ampere meter,	60 00
	Miscellaneous tools,	95 00
1	Model F Surrey automobile and supplies,	1,250 00
	Total,	$23,569 00
	Total stock not in use December 10,	3,571 24
	Total,	$27,140 24

CITY OF SPRINGFIELD.

FORM OF CONTRACT BETWEEN CITY OF SPRINGFIELD, MASS., AND UNITED ELECTRIC LIGHT CO., MADE IN 1904.

This agreement, made this first day of May, 1904, by and between the City of Springfield, a municipal corporation established in the county of Hampden, hereinafter called the party of the first part, and the United Electric Light Company, a corporation established by law in the city of Springfield, in said county, and hereinafter called the party of the second part, witnesseth:—

The said party of the second part, in consideration of the agreement of the party of the first part hereinafter contained, and of other valuable considerations by it received of the party of the first part, hereby covenants and agrees with the party of the first part as follows: That it will furnish and operate for, and during the period of FIVE years, beginning on the first day of May, A. D. 1904, arc electric lamps to the number of not less than 900, known as "350 watt, 1,200 candle power lamps"; and to furnish and maintain all wire-supporting poles, electrical apparatus, fixtures and accessories thereto, required for the safe and efficient operation of said lamps, in such parts of the city as lie within a radius of four miles of the City Hall building, and lamps that are or may be located in that part of the city known as Indian Orchard, which shall be within a radius of three miles of the power house of the party of the second part at Indian Orchard, and at such particular locations as the City Council may direct; these lamps to be suspended or supported upon posts, as the Committee on Lighting Streets may determine; and that during said period it will provide, clean, and care for said lamps, repair and paint all the apparatus and fixtures referred to above, furnished and owned by said party of the second part, and paint the lamp-supporting poles and mast arms owned by the party of the first part, in strict conformity with the following conditions, which are made a part of this agreement.

The party of the first part hereby agrees to furnish and keep in repair all lamp-supporting poles and mast arms, excepting painting the lamp-supporting poles and mast arms, properly equipped and placed in position to receive the apparatus and appurtenances thereto of the party of the second part; and it also shall give to the party of the second part authority to erect and maintain all necessary poles for supporting its wires on all streets where lamps are established by the party of the first part for lighting the streets. Whenever the party of the first part shall change any top light, so-called, to a mast arm light, the party of the second part shall furnish the necessary additional wiring without expense to the party of the first part.

CONDITIONS.

Light Giving Power.

The light giving power of the lamps shall be determined by the electrical energy expended at the lamp; it being understood that not less than three hundred and fifty watts is to be furnished each lamp.

Hours of Lighting.

The lamps are to be operated continuously each and every night during the continuance of this agreement. They are to be started thirty minutes after sunset, and kept in operation until thirty minutes before sunrise. The time of sunset and sunrise, for the purpose of this contract, shall be determined by the Old Farmer's Almanac.

Carbons.

These shall be of the best quality for and best adapted to street lighting, and of the size adapted to the current used, and must burn uniformly and give a clear and steady light.

Globes.

These shall be of clear glass, unless otherwise ordered by said committee, and shall be free from lettering; of best quality and proper shape, to avoid casting rings or streaks of light and shadow, and shall be kept clean to the satisfaction of said committee. Any globes that may become broken shall be replaced by sound ones each day before starting the lights, if not said light shall be considered as out, and the outage shall be deducted. If the said committee shall request any of the globes changed, such change shall be made at once.

Location of Lamps.

The position, manner of hanging, height above pavements, and number of lamps for any locality, as well as their locality, shall be determined by the party of the first part, acting by said committee.

Apparatus.

The lamps, wires, and other conductors shall be thoroughly insulated and so placed and cared for as not to expose the public or property to danger, or to unnecessarily interfere with the work of the fire department in case of fire.

In case the Committee on Lighting Streets shall decide that any of the wire-supporting poles, or apparatus connected therewith, require repairing, owing to an unsightly or dangerous condition, the same shall be repaired at once, and within twenty-four hours of notice from said committee; if not so repaired, said committee may make the repairs, and the expense thereof may be deducted from any amount due the party of the second part.

The members of the police department may report daily to the city the hours when lamps are started and the hours they are extinguished, and may report the length of time that any lamps fail to burn.

Inspection.

The party of the second part agrees, at its own expense, to maintain an efficient system of patrol for inspecting the lamps during the hours when they are in use, so that any lamp which fails to burn properly shall be promptly reported and put in order, or immediately replaced. For this inspection a sufficient number of men shall be employed to enable each lamp to be examined at least twice each night.

It is further understood and agreed that the said superintendent of lighting streets is authorized to make such tests to determine the electrical power supplied under this contract as he may deem necessary; and that the said superintendent, or such persons as may be authorized by the committee, shall, for the purpose of making tests, have full access at all times to all lamps, poles, conduits, apparatus, or machinery used by the said company on the streets or at their station for furnishing lights for the city, and that the party of the second part shall, if the committee so decide, furnish space at their station for such recording meters as the committee shall provide.

It is further understood and agreed that should any two tests, made as herein provided, show in any one month a smaller amount of electrical energy in any circuit in the service of said city than is called for by this contract, then the said city may deduct from any sum due the said company such proportional part of the sum due said company for lights furnished during the current month as the deficiency found by such tests shall bear to the standard of electrical energy herein established.

Indemnity Clause.

The party of the second part shall indemnify and save harmless the party of the first part from any and all liability, loss, cost, or damage that it may suffer by reason of any infringement suits, and from any and all liability for injury to persons or property (and from all damages of any sort) resulting from defective insulation, defective poles, fixtures, or apparatus belonging to the party of the second part, or carelessness in the operation or management of said lamps, or anything connected therewith.

Allowances to be Made.

In case the light-giving power of any of the lamps shall be less than called for herein, payment shall only be made for the actual power furnished, the amount to be paid to be based pro rata upon the amount called for if the power were equal to that required hereby; but this shall not imply a right to continue to furnish lights under this contract at a reduced power. In case any of the lamps are not lighted as early as required by this contract, or are extinguished prior to the time established for the extinguishment thereof, or in case any of them shall be extinguished during the time they ought to burn, then payment shall not be made for the time such lamps are not lighted, when they should be, and a pro rata allowance shall be made therefor. Any amount that shall be due the party of the first part under the provisions of this clause of the contract shall be deducted out of any money that may be payable to the party of the second part.

Additional Lights.

In case any lights in addition to those herein provided for shall be required by the city within said district, the same shall be furnished and maintained on the same terms and conditions as those herein provided.

Removal of Poles and Wires.

Said party of the second part agrees that it will, annually, during the life of this contract, but not including the year 1909, remove street lighting wires now located along existing conduits to such conduits to the extent of at least three miles of streets in each year.

Said party of the first part agrees that the party of the second part shall not, except as aforesaid, be obliged during the life of this contract, to construct conduits and remove wires thereto.

Repairs May be Done by the City.

In case the party of the second part shall fail to keep the wire-supporting poles, lamps, and fixtures in such repair as shall be satisfactory to said committee, then said committee may cause such repairs to be made at the expense of the party of the second part, and such expense shall be deducted from any amount due them.

The number of lamps on any one circuit shall not exceed the number which the dynamo for such circuit is rated to run, and such dynamos shall deliver the proper current for all lamps.

In consideration of the agreement of the party of the second part, hereinbefore contained, the party of the first part agrees that it will, subject to any and all rights it has or may have under any of the terms and conditions of said agreement, pay said party of the second part for all lights rated 1,200 candle power that are or shall be located along conduits and fed by wires therefrom, *Eighty-five Dollars* per light per year; for all other lights rated 1,200 candle power *Seventy-three Dollars* per light per year; for all lights rated as 40 candle power series incandescent electric lamps *Fifteen Dollars* per light per year; but it is hereby expressly agreed that the foregoing price to be paid for lights fed by wires from conduits is based upon the understanding that the Supervisor of Wires of the city of Springfield shall, from year to year during this contract, exempt from the operation of Chapter 276 of the Acts of the year 1900, and any amendments thereto, all wires except the three miles of wire which the party of the second part has herein agreed to annually remove; and, in case such Supervisor of Wires shall not so exempt any such wires, and, by reason of his failure to do so, said party of the second part shall be obliged to construct conduits therefor; then for all lights which shall be fed by such last named conduits, said city agrees to pay the sum of *One Hundred and Twenty-five Dollars* per light per year for 1,200 candle power lights, and *Twenty-five Dollars* per light per year for all lights rated 40 candle power series incandescent lamps. Payment for all lights is to be made monthly for the service of the preceding month on vouchers duly approved under the ordinances of the city; all payments to be made at the Treasurer's office; that in case, on the expiration of this contract, a new contract is not entered into with the party of the second part to light the streets of the city, any company to whom such new contract shall be awarded shall purchase of the party of the second part, if the party of the second part desires to sell, the supporting poles, wires, conduits, and electrical apparatus and accessories thereto, owned by it and used in carrying out the terms hereof; said purchase to be at a price to be determined by three appraisers; one to be appointed by the party of the second part; one by the purchaser, and the third by the two so chosen; and in case the city shall engage in the business of lighting its streets, on the expiration of this contract, said city shall take said property on the same terms.

It is agreed by the party of the first part that the party of the second part shall not be required to furnish incandescent lights hereunder, except on existing arc street lighting circuits and extensions thereof, and that such lights shall be so located as not to require more than 300 feet of wires leading from a conduit, or over 300 feet of pole line material for each lamp.

In witness whereof, the parties hereto, by their duly authorized representatives, have executed this agreement in duplicate the day and year first above written.

Attest: E. A. NEWELL, *City Clerk.*

CITY CLERK'S REPORT.

CITY CLERK'S REPORT.

City Clerk's Office, Municipal Building,
December 31, 1906.

To the City Council of the City of Springfield:—

I herewith submit the following report for the year ending November 30, 1906.

The amount of fees received by me for official services, from December 1, 1905, to December 1, 1906, is as follows, said sum having been paid by me to the City Treasurer:—

For marriage certificates,	$399 50
Copies of record,	67 10

For recording and indexing the following papers:—

Mortgages of personal property,	337 40
Discharges of mortgages,	48 75
Assignments of mortgages,	5 70
Attachments of personal property,	1 75
Bills of sale,	9 15
Discharges of bills of sale,	75
Notices of foreclosure,	3 45
Assignments of wages,	105 20
Discharges of assignments,	1 75
Assignment of assignments,	25
Married women's certificates,	7 50
Discharges of married women's certificates,	25
Leases,	2 30
Voluntary assignments,	14 00
Recording and indexing dog licenses at 20 cents each,	505 80
Itinerant vender,	107 80
Conditional sale,	45
Witness fees,	2 60
Examining records,	75
Ink,	15
	$1,622 35

In addition to the above there has been paid to the County Treasurer the sum of $5,481.20, being the amount due the County of Hampden for dog licenses, less fees for recording, from December 1, 1905, to December 1, 1906.

SPRINGFIELD, MASS., December 31, 1906.

I hereby certify that the foregoing report of the City Clerk is correct, as per his records and receipts on file in his office.

WM. C. MARSH,
Auditor of Accounts.

The number of marriage intentions filed during the year is	**814**
The number of marriages for the year is	**926**
The number of deaths for the year is	**1,347**
The number of births for the year is	**1,925**

VOTERS AND REGISTRATION.

The following table shows the number of men and women who registered as voters in 1905 and 1906:—

1905.					1906.				
Ward.	**Precinct.**	**Men.**	**Women.**	**Total.**	**Ward.**	**Precinct.**	**Men.**	**Women.**	**Total.**
1	A	26		26	1	A	71		71
1	B	63		63	1	B	104		104
1	C	42		42	1	C	59	1	60
1	D	59		59	1	D	61		61
2	A	102		102	2	A	47		47
2	B	142		142	2	B	57	1	58
3	A	76		76	3	A	67		67
3	B	88		88	3	B	71		71
4	A	54		54	4	A	62	1	63
4	B	44		44	4	B	56		56
5	A	30	1	31	5	A	42		42
5	B	46		46	5	B	57	1	58
6	A	47		47	6	A	48		48
6	B	55		55	6	B	53		53
7	A	27		27	7	A	25		25
7	B	30		30	7	B	47	1	48
7	C	16		16	7	C	49		49
7	D	19		19	7	D	44		44
8	A	40		40	8	A	49		49
8	B	32		32	8	B	48	2	50
8	C	96		96	8	C	47		47
		1,134	1	1,135			1,164	7	1,171

The following table shows the number of assessed polls and the number of men and women on the voting list at the city election December 1905 and 1906:—

1905.					1906.				
Ward.	Precinct.	Assessed Polls.	Men.	Women.	Ward.	Precinct.	Assessed Polls.	Men.	Women.
1	A	639	391	2	1	A	679	426	2
1	B	1,053	810	17	1	B	1,200	898	12
1	C	799	540	14	1	C	847	559	10
1	D	867	580	6	1	D	918	604	6
2	A	1,225	755	5	2	A	1,198	739	5
2	B	1,644	722	7	2	B	1,605	688	7
3	A	976	477	13	3	A	963	475	12
3	B	1,198	680	9	3	B	1,206	629	7
4	A	1,122	698	32	4	A	1,143	701	29
4	B	1,168	841	60	4	B	1,185	830	53
5	A	1,021	773	59	5	A	1,038	784	53
5	B	1,098	743	12	5	B	1,072	731	12
6	A	1.028	501	9	6	A	859	494	9
6	B	1,160	804	29	6	B	1,160	793	27
7	A	654	476	13	7	A	684	473	12
7	B	812	637	28	7	B	870	666	27
7	C	620	457	7	7	C	750	533	6
7	D	702	554	39	7	D	732	599	35
8	A	1,027	692	18	8	A	1,126	715	17
8	B	921	689	19	8	B	937	707	21
8	C	1,447	581	5	8	C	1,501	568	5
		21,181	13,401	403			21,673	13,612	367

Respectfully submitted,

E. A. NEWELL, *City Clerk.*

Board of Aldermen, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

Common Council, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

Mayor's Office, Springfield, Mass., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

CITY OF SPRINGFIELD.

LIST OF JURORS, 1907.

City of Springfield, Mass.,
City Clerk's Office, February 5, 1907.

I certify that the following is the list of jurors for the City of Springfield for the year 1907, selected and posted by the Registrars of Voters and approved by the Board of Aldermen as required by law.

E. A. NEWELL, *City Clerk.*

NAME.	OCCUPATION.	RESIDENCE.
Abbe, Fred A.,	Grain Dealer,	31 Ozark street
Adams, Bernal H.,	Bookkeeper,	751 Worthington street
Adams, Charles F.,	Drug Clerk,	124 Spring street
Adams, Charles F.,	Manufacturer,	26 Fairfield street
Adams, Henry,	Merchant,	3 Oak street
Adams, James S.,	Merchant,	167 Maple street
Adams, John J.,	Merchant,	26 Harriet street
Adams, William,	Coachman,	71 Dale street
Adams, William F.,	Merchant,	51 Mulberry street
Adler, Edgar F.,	Pressman,	492 Liberty street
Ager, J. Francis,	Dentist,	4 Mattoon street
Ahrens, William,	Mechanic,	79 Sargeant street
Aiken, Almon S.,	Superintendent,	309 North street
Aitken, Mark,	Florist,	62 Osgood street
Albee, Julian R.,	Laundryman,	29 Irvington avenue
Albro, Frank E.,	Insurance Agent,	252 Bay street
Alden, F. Merritt,	Gas Company,	200 Buckingham street
Alden, George A.,	Photographer,	179 Liberty street
Alexander, Alexander,	Buyer,	501 Belmont avenue
Allbe, Charles A.,	Plumber,	53 Stebbins street
Allen, Albert W.,	Fiberloid Co.,	52 Spruce street

NAME.	OCCUPATION.	RESIDENCE.
Allen, Edward H.,	Tester,	91 Marion street
Allen, Ethan,	Inspector,	27 College street
Allen, Joseph,	Intelligence Office,	28 Warriner avenue
Allen, Joseph C.,	Teller,	38 Rutledge avenue
Allen, William H.,	Photo Engraver,	23 Salem street
Allis, William E. T.,	Tinner,	240 Chestnut street
Alvord, Edward B.,	Com. Traveler,	77 Bowles street
Amann, Henry J.,	Foreman,	49 Acushnet avenue
Amidon, George F.,	Harness Maker,	33 Holyoke street
Angell, Ethan T.,	Foreman,	327 North Main street
Angers, Joseph A.,	Builder,	367 Eastern avenue
Appleton, Edward A.,	Inspector,	313 Maple street
Atherton, Horace E.,	B. & M. R. R. Co.,	63 North Main street
Atkins, Almon W.,	Paper Mfr.,	18 Allendale street
Atkinson, James H.,	Cabinet Maker,	67 Alden street
Atwater, Charles B.,	Retired,	250 Sumner avenue
Atwell, Guy H.,	Clerk,	10 Allendale street
Austin, Charles A.,	Weigher,	796 State street
Avery, Robert N.,	Teamster,	82 Oak street
Axtell, Charles S.,	Printer,	27 Wellesley street
Baab, Otto,	Piano Dealer,	25 Winthrop street
Bacon, Walter E.,	Polisher,	45 Worcester avenue
Bagg, Henry J.,	Linotyper,	44 Webster street
Bailey, Russell A.,	Superintendent,	33 Allendale street
Baker, Irving G.,	Merchant,	11 Frost street
Baker, Louis H.,	Bookkeeper,	140 Berkshire street
Baker, William A.,	Painter,	53 Bond street
Baker, William G.,	Merchant,	58 Seventh street
Balch, Byron B.,	Druggist,	743 Worthington street
Baldwin, Howard M.,	Merchant,	131 King street
Ball, Alonzo F.,	Merchant,	51 Sargeant street
Ball, Samuel T.,	Secretary,	579 Sumner avenue
Bangs, Samuel A.,	Clerk,	20 Stebbins street
Banning, William S.,	Builder,	50 Dartmouth street
Barker, George A.,	Inspector,	59 Harriet street
Barker, Irvin R.,	Druggist,	95 Yale street
Barnes, Byron R.,	Janitor,	4 Sheridan lane
Barnes, Clarence W.,	Clerk,	18 Sargeant street
Barney, Elwyn W.,	Carpenter,	388 North Main street
Barney, Thomas J.,	Paper Maker,	18 Butler street
Barnum, George A.,	Carpenter,	136 Hampden street, I. O.
Barrett, Albert W.,	Tool Maker,	62 Bancroft street

NAME.	OCCUPATION.	RESIDENCE.
Barrett, Charles D.,	Printer,	635 State street
Barrett, Gilbert R.,	Compositor,	121 Greenwood street
Barrows, Herbert S.,	Milton Bradley Co.,	7 Pearl street place
Bartholomew, Clarence A.,	Merchant,	E. S. South street
Bartlett, William C.,	Merchant,	57 Sargeant street
Bassett, Austin P.,	Real Estate Dealer,	49 Waverly street
Batchelder, David L.,	Foreman,	28 Ringgold street
Batchelder, Edward S.,	Treasurer,	76 Temple street
Bates, Pearl,	Manufacturer,	66 Crystal avenue
Battey, Lafayette L.,	Carpenter,	19 Carew street avenue
Baxter, Ernest Wilson,	Com. Traveler,	86 Princeton street
Baxter, John D.,	Com. Traveler,	232 Walnut street
Beach, Charles O.,	Shipping Clerk,	239 Hancock street
Beach, Howard F.,	Milk Dealer,	385 Belmont avenue
Bean, Fred,	Boston & Albany,	6 Howard place
Beardsley, Charles T.,	Carpenter,	39 Bancroft street
Beardsley, Horace M.,	None,	171 Walnut street
Beaudry, Alfred J.,	Organ Builder,	39 Quincy street
Begley, Joseph T.,	Miller,	71 Everett street
Belden, Allen M.,	Milk Dealer,	104 Alden street
Belden, William E.,	Shipping Clerk,	27 Rutledge avenue
Belding, Elijah,	Merchant,	15 Edwards street
Belding, Everett E.,	Clerk,	15 Edwards street
Bell, William B.,	Lithographer,	30 Spring street
Bellamy, Charles J.,	Publisher,	225 Central street
Bellamy, Thomas A.,	Boiler Maker,	45 Linden street
Bellows, Alonzo L.,	Clerk,	73 Spring street
Bemis, Fred I.,	Clerk,	115 Garfield street
Benchley, Frederick L.,	Architect,	421 Bay street
Bengle, Charles,	Merchant,	82 Hampden street, I. O.
Bennett, Albert G., Jr.,	Bookkeeper,	30 Merrick avenue
Benoit, Arthur F.,	Printer,	308 Chestnut street
Benoit, George A.,	Second Hand Dealer,	42 Bridge street
Berggren, John A.,	Carpenter,	30 Adams street
Berryman, Richard,	Foreman,	44 Talcott avenue
Besse, Lyman W.,	Merchant,	29 Ingersoll grove
Bickley, Francis B.,	Clerk,	16 Woodside terrace
Bigelow, Edmund,	Insurance Agent,	52 Pearl street
Bill, Frederic A.,	Manufacturer,	133 Maple street
Bill, James A., Jr.,	Manufacturer,	66 Dartmouth street
Birnie, Alfred,	Manufacturer,	7 Pearl street
Birnie, William P.,	Manufacturer,	34 Sterns terrace
Bishop, John P.,	Asst. City Treasurer,	18 Central street avenue

NAME.	OCCUPATION.	RESIDENCE.
Blaine, Joseph,	Pressman,	246 Worcester street
Blair, Frederick Charles,	Wire Weaver,	90 Grover street
Blanden, George H.,	Clerk,	116 Florence street
Blauvelt, Arthur W.,	Salesman,	36 Bancroft street
Bliss, Edward S.,	Engineer,	32 Acushnet avenue
Blodgett, Charles A.,	Clerk,	128 Maplewood terrace
Blodgett, Willis E.,	Reporter,	402 Central street
Bodurtha, Addison P.,	Shipping Clerk,	34 Calhoun street
Boedeker, Albert,	Bookkeeper,	226 Fort Pleasant avenue
Bond, Edward H.,	Clerk,	18 Brookline avenue
Booth, Joseph C.,	Clerk,	17 Concord terrace
Bordo, Joseph H.,	Loom Fixer,	61 Dwight street
Bowen, Arthur L.,	Bank Teller,	444 Central street
Bowles, Caleb W.,	Manager,	28 Dorchester street
Bowles, Charles A.,	Paper Stock Dealer,	81 Mulberry street
Boyle, John P.,	Pipe Coverer,	53 Tenth street
Bradley, Walter A.,	Mechanic,	17 Spruce street
Brady, William H.,	Carpenter,	85 Acushnet avenue
Bragg, Benjamin L.,	Insurance Agent,	79 Mapledell street
Breck, James H.,	Merchant,	4 Lafayette street
Brewer, Charles A.,	Farmer,	N. S. Wilbraham road
Bridgman, Richard C.,	Traveling Salesman,	40 Allendale street
Briggs, Caleb W.,	Tool Maker,	10 Rutledge avenue
Broderick, Timothy H.,	Carpenter,	34 Rutledge avenue
Brooks, Amos Roswell,	Electrician,	32 Wendell avenue
Brooks, Herbert A.,	Clerk,	16 Acushnet avenue
Brooks, Richard S.,	News Editor,	32 Warriner avenue
Brooks, William B.,	Drop Forger,	597 Main street
Brooks, William H.,	Paper Hanger,	365 Walnut street
Brosnan, Cornelius J.,	Com. Traveler,	123 Westminster street
Brough, Rodman R.,	Real Estate Dealer,	12 Brookline avenue
Broughall, Richard E.,	Undertaker,	63 Bridge street
Broughall, Thomas F.,	Undertaker,	142 Patton street
Brown, Arthur W.,	Collector,	54 Murray Hill avenue
Brown, Charles W.,	Clerk,	97 High street
Brown, Edward K.,	Electrician,	134 Northampton avenue
Brown, Franklin D.,	Machinist,	122 Hampden street
Brown, Fred R.,	Merchant,	37 Magnolia terrace
Brown, Henry L.,	Mason,	386 Hancock street
Brown, Kirk H.,	Collector,	47 Mattoon street
Brown, Leroy W.,	Manufacturer,	120 Calhoun street
Brown, Luman S.,	Charcoal Dealer,	71 Dartmouth terrace
Bryan, James A.,	Clerk,	30 Maple street

NAME.	OCCUPATION.	RESIDENCE.
Buck, Frank C.,	Chief Operator,	59 Princeton street
Buckley, Daniel H.,	Proprietor,	264 Main street
Bugbee, Ephraim J.,	Photo Engraver,	47 Oak street
Bugbee, Eugene M.,	Carriage Maker,	24 Crosby avenue
Bugbee, Frank A.,	Piano Tuner,	239 Hancock street
Bullard, Edson P.,	Foreman,	9 Florence street
Bullard, Myron H.,	Shipping Clerk,	41 Osgood street
Bunberry, Thomas F., Jr.,	Blacksmith,	72 Vernon street
Burdick, Arthur,	Candy Maker,	424 Central street
Burgin, J. Alfred,	Awning Maker,	12 Ashmun street
Burke, James C.,	Grocer,	rear 223 Hancock street
Burke, John Vincent,	Molder,	138 Tenth street
Burke, Peter,	Mason,	16 Osgood street
Burke, Thomas,	Driver,	124 Congress street
Burke, William J.,	Merchant,	39 Hooker street
Burke, William M.,	Miller,	70 Park street
Burns, Thomas F.,	Wood Worker,	24 Besse place
Burt, F. Howard,	Clerk,	56 Spruce street
Butler, Anson E.,	Com. Traveler,	85 Pearl street
Butler, Charles B.,	Com. Traveler,	87 Buckingham street
Butler, John J.,	Clerk,	15 Congress street
Butterfield, Henry W.,	Com. Traveler,	74 Alexander street
Caldwell, Winford N.,	President,	20 Ridgewood place
Call, Charles C.,	Foreman,	18 Greene street
Call, Stillman B.,	Merchant,	557 Liberty street
Callanan, Charles J.,	Jobber,	79 Sharon street
Callanan, Joseph B.,	Butcher,	70 Massasoit street
Calnan, John J.,	Compositor,	289 Belmont avenue
Campbell, Alphonsus L.,	Jeweler,	8 Howard street
Campbell, Fred M.,	Reporter,	23 Parkwood street
Candrian, Charles C.,	Tool Maker,	52 Pendleton avenue
Cape, Charles W.,	Die Sinker,	582 Armory street
Carey, Thomas E.,	Printer,	E. S. Healy lane
Carleton, Guy,	Bookkeeper,	161 High street
Carlson, Gustaf,	Mechanic,	34 Webster street
Carman, Julius F.,	Grocer,	226 Belmont avenue
Carpenter, George H.,	None,	94 Tenth street
Carpenter, Homer I.,	Merchant,	129 Orleans street
Carroll, Edward,	Stone Cutter,	55 Manhattan street
Carroll, Edward J.,	Com. Traveler,	482 Hancock street
Carroll, John E.,	Brick Mason,	121 Main street
Carroll, Michael J.,	Treasurer,	486 Hancock street

NAME.	OCCUPATION.	RESIDENCE.
Carter, Edwin A.,	Retired,	162 Pearl street
Carter, Herbert W.,	Merchant,	116 Mulberry street
Case, Adelbert B.,	Treasurer,	Round Hill
Case, Edmund E.,	Artist,	90 High street
Case, Fred E.,	Polisher,	16 Rutledge avenue
Casey, Dennis D.,	Plumber,	369 Walnut street
Casey, John,	Stone Cutter,	34 Linden street
Casey, Patrick,	Polisher,	27 Park street
Cassidy, James E.,	Helper,	84 Howard street
Cassidy, John J.,	Cigar Maker,	60 Bridge street
Cassidy, William C.,	Operator,	63 Charles street
Castle, Henry C.,	Salesman,	68 Calhoun street
Cavanaugh, John F.,	Clerk,	60 Vine street
Chamberlain, Albert A.,	Clerk,	132 Amherst street
Chandler, Fred N.,	Stamp Maker,	39 Murray Hill avenue
Chandler, Louis J.,	Engraver,	667 State street
Chapin, Albert A.,	Accountant,	36 Mapledell street
Chapin, Arthur LeBaron,	Collector,	44 Hawthorn street
Chapin, George P.,	Stenographer,	600 Belmont avenue
Chapin, Henry G.,	Manufacturer,	353 Maple street
Chapman, Dwight M.,	Machinist,	67 Marble street
Chase, Charles P.,	Merchant,	572 Belmont avenue
Chauncey, Samuel H.,	Salesman,	39 Windsor street
Chetham, William,	Awning Maker,	347 Walnut street
Childs, Robert P.,	Shipping Clerk,	593 State street
Chisholm, Alex.,	Harness Maker,	400 Chestnut street
Clark, Charles A.,	Carpenter,	49 Hooker street
Clark, Edward A.,	Bookkeeper,	403 Maple street
Clark, George H.,	Plumber,	15 Congress street
Clark, Henry M.,	Insurance Agent,	15 Lafayette street
Clark, James H.,	Merchant,	153 Catharine street
Clark, James W.,	Foreman,	320 Central street
Clark, John J.,	Gilder,	492 Liberty street
Clark, Leonard S.,	Tinsmith,	49 Rutledge avenue
Clark, Luther C.,	Compositor,	66 Pearl street
Cleeland, Robert R.,	Manufacturer,	187 Westminster street
Clemmer, Charles H.,	Proof Reader,	60 Sheldon street
Cleveland, Frank E.,	Blacksmith,	501 Oak street
Cochran, John N.,	Stamp Cutter,	54 Oak street
Cody, Nicholas T.,	Cigar Maker,	287 Chestnut street
Colburn, Charles D.,	Foreman,	240 Plainfield street
Cole, Daniel P.,	Com. Traveler,	275 Union street
Cole, Newbern K.,	Grocer,	511 Plainfield street

NAME.	OCCUPATION.	RESIDENCE.
Coleman, Henry G.,	Cabinet Maker,	67 Wason avenue
Coleman, Thomas F.,	Peddler,	510 Main street
Coleman, Timothy F.,	Conductor,	127 Patton street
Collins, Edward W.,	Apprentice,	110 Congress street
Collins, Harry C.,	Contractor,	37 Dorchester street
Collins, Stephen J.,	Merchant,	63 Greenwood street
Collins, Thomas P.,	Shipping Clerk,	56 Greenwood street
Collins, Timothy J.,	Shoe Merchant,	60 Vinton street
Collins, Thomas M.,	Janitor,	110 Congress street
Colton, Howard C.,	Com. Traveler,	573 State street
Colwell, Arthur A.,	Butcher,	79 Morris street
Colwell, Harding H.,	Grocer,	84 Oak street
Combs, William A.,	Clerk,	17 Lillian street
Condon, Thomas S.,	Foreman,	249 Carew street
Cone, George A.,	Die Sinker,	442 Liberty street
Coney, John C.,	Bookbinder	57 Fremont street
Conley, James W.,	Real Estate Dealer,	22 Orleans street
Conlin, Frank J.,	Shoe Clerk,	22 Brookline avenue
Connell, George J.,	Clerk,	402 Chestnut street
Connor, John J.,	Clerk,	52 Linden street
Converse, Fred F.,	Carpenter,	W. S. Converse street
Converse, Horatio L.,	Clerk,	201 High street
Conway, William H.,	Milk Peddler,	183 Tyler street
Cook, Arthur P.,	Clerk,	111 White street
Cook, Robert L.,	Marble Dealer,	17 Bay street
Cook, Waldo L.,	Assistant Editor,	18 Dorchester street
Cooley, George L.,	Clerk,	167 Allen street
Cooper, Charles F.,	Bookkeeper,	179 Wilbraham road
Cooper, William J.,	Paymaster,	54 Buckingham street
Copeland, Robert,	Plumber,	25 Ladd street
Corbin, Arthur O.,	Com. Traveler,	110 Florida street
Corcoran, James B.,	Editor,	95 Maple street
Cordner, James,	Insurance Agent,	74 Cleveland street
Cornell, S. Arthur,	Asst. Paymaster,	32 Seventh street
Costello, William H.,	None,	49 Franklin street
Coughlin, John T.,	Clerk,	24 Besse place
Coulter, William,	Foreman,	44 Murray Hill avenue
Coward, Frederick E.,	Electrician,	68 Carew street
Cowles, Alfred B.,	Insurance Agent,	50 Prospect street
Cowles, Edward C.,	Clerk,	16 Acushnet avenue
Cowles, George H.,	Clerk,	52 Nelson avenue
Cowles, J. Clayton,	Mill Agent,	56 Northampton avenue
Cowles, Joseph B.,	Grocer,	16 Broad street

NAME.	OCCUPATION.	RESIDENCE.
Coyle, William A.,	Bookkeeper,	23 Greenwood street
Craig, L. Bertram,	Carpet Layer,	501 Allen street
Cramond, Hugh,	Insurance Agent,	Coleman street
Crocker, Clifton A.,	Manufacturer,	297 Union street
Crosby, Thomas F.,	Lithographer,	43 Murray Hill avenue
Cross, George N.,	Carpenter,	61 Central street
Crouss, George H.,	Cigar Mfr.,	1 Bond place
Cullinan, William F.,	Clerk,	123 Patton street
Cummings, Martin J.,	Laborer,	101 Greenwood street
Curran, Henry A.,	Wire Weaver,	267 Main street
Curran, Henry F.,	Safe Dealer,	26 Besse place
Currier, Reuben B.,	Lumber Dealer,	10 Chestnut street
Curtis, George V.,	Draughtsman,	60 Sargeant street
Curtis, George W.,	Mason,	115 Florence street
Cushman, Arthur I.,	Clerk,	31 Sargeant street
Cutler, Cassius H.,	Cabinet Maker,	106 Dawes street
Cutler, William W.,	Mechanic,	366 Union street
Daboll, Frank G.,	Superintendent,	66 Harvard street
Dailey, James H.,	Barber,	16 Howard street
Dailey, William H.,	Chef,	36 Bridge street
Daly, John E.,	Hackman,	25 Essex street
Davee, Thomas T.,	Clerk,	761 State street
Davidson, James K.,	Bookkeeper,	40 Avon place
Davis, Edwin T.,	Mason,	181 Lebanon street
Davis, Everett L.,	Clerk,	30 Catharine street
Davis, John,	Secretary,	354 Walnut street
Davison, Ralph H.,	Merchant,	117 Florida street
Day, Francis A.,	Clerk,	342 Forest Park avenue
Day, Robert W.,	Manufacturer,	265 State street
Day, William O.,	Manufacturer,	5 Madison avenue
Dayton, Bloomfield H.,	Clerk,	249 Union street
Deane, Hugh G.,	Typewriter,	561 North Main street
De Frate, Channing,	Druggist,	55 Court street
Denison, George A.,	Writer,	45 Avon place
Desautels, Charles H.,	Tool Maker,	178(B) William street
Dexter, Ernest J.,	Clerk,	27 High street
Dexter, Jenness K.,	Commis. Merchant,	27 High street
Dibble, Burton E.,	Com. Traveler,	107 Harvard street
Dickinson, Eugene R.,	Repairer,	24 Central street avenue
Dickinson, Oliver H.,	Secretary,	Holland road
Dill, Frank E.,	Die Sinker,	41 Bancroft street
Dillon, James F.,	Clerk,	302 Water street

NAME.	OCCUPATION.	RESIDENCE.
Dillon, John,	Laborer,	28 Congress street
Dimmock, George,	Scientist,	S. S. Berkshire street
Dimmock, Elwin Hibbert,	Y. M. C. A.,	42 Alden street
Dineen, James,	Mason,	168 Liberty street
Dionne, Joseph E.,	Manager,	79 Park street
Dodge, Walter P.,	Superintendent,	17 Palmer avenue
Doherty, John F.,	Dentist,	150 Main street, I. O.
Donahue, Charles A.,	Com. Traveler,	27 Vernon street
Donahue, Frank P.,	Plumber,	50 Edwards street
Donahue, James J.,	Profiler,	44 Brookline avenue
Donahue, John T.,	Telegraph Operator,	116 Tenth street
Donahue, Michael F.,	Plasterer,	190 Chestnut street
Donlin, Thomas M.,	Clerk,	601 Main street
Donnelly, Hugh J.,	Buyer,	100 Central street
Donnelly, John H.,	Merchant,	71 Charles street
Donoghue, John H.,	Boiler Maker,	43 Hancock street
Donohue, John W.,	Architect,	32 Plainfield street
Donovan, James J.,	Mechanic,	87 Franklin street
Donovan, John J.,	Waiter,	71 Bliss street
Donovan, John T.,	Inventor,	56 Greenwood street
Donovan, Matthew J.,	Insurance Agent,	87 Franklin street
Donovan, Thomas J.,	Blacksmith,	59 Bliss street
Dooley, James E.,	Insurance Solicitor,	423 Chestnut street
Dooley, Timothy J.,	Drug Clerk,	4 Howard place
Doolittle, Edwin F.,	Brakeman,	117 Florence street
Doolittle, Frank P.,	Com. Traveler,	120 Maplewood terrace
Douglas, William,	Machinist,	11½ Bond street
Dorman, Henry E.,	None,	95 Walnut street
Doty, William H.,	Clerk,	998 State street
Dow, Charles E.,	Manufacturer,	14 Stebbins street
Dowling, Edward,	Piper,	122 Greenwood street
Downey, Michael,	Porter,	406 Main street
Downs, Thomas F.,	Printer,	116 Armory street
Drake, Perley H.,	Clerk,	64 Adams street
Drake, Thomas,	Plumber,	125 Franklin street
Draper, Eugene,	Retired,	36 Oak street
Driscoll, Cornelius D.,	Mechanic,	26 Harrison avenue
Driscoll, Francis J.,	Produce Dealer,	28 Everett street
Droney, Thomas,	B.&A.R.R. Frt. Office,	123 Congress street
Drown, Frank E.,	Manufacturer,	E. S. Groveton street
Dunn, Michael,	Wagon Mfr.,	W. S. Colonial avenue
Durand, Charles F.,	Washington, D. C.,	350 Chestnut street
Durant, John B.,	Machinist,	23 Sterling street

NAME.	OCCUPATION.	RESIDENCE.
Duryea, J. Frank,	Mechanic'l Engineer,	70 Montrose street
Dwelly, Joseph F.,	Machinist,	366 Springfield street
Easter, William J.,	Clerk,	461 Walnut street
Eaton, Howard L.,	Clerk,	71 Walnut street
Eaton, J. Winslow,	Towel Supply,	34 Hawthorn street
Eaton, William T.,	Hardware Dealer,	129 Essex street, I. O.
Eddy, Arthur C.,	Bookkeeper,	43 School street
Edgar, John E.,	Hotel Keeper,	224 Main street
Edson, George M.,	Shipping Clerk,	477 Worthington street
Edwards, Franklin,	Bookkeeper,	52 Pearl street
Eldred, Fred A.,	Druggist,	25 Westford avenue
Ellison, Edward S.,	Am. Express Co.,	180 Belmont avenue
Elwell, Eugene T.,	Merchant,	25 Mattoon street
Elwell, Homer F.,	Manufacturer,	49 Broad street
Emerson, Clarence E.,	Shipping Clerk,	911 Armory street
Emerson, Edwin,	Foreman,	99 Jefferson avenue
Emerson, Roy N.,	Clerk,	42 North street
Engel, Charles F.,	Wallet Maker,	45 King street
Erickson, Gustave,	Bookbinder,	38 Margaret street
Estabrook, George R.,	Merchant,	34 Avon place
Fairbanks, Arthur T.,	Confectioner,	43 Sargeant street
Fairbanks, Harry H.,	Broker,	332 Dickinson street
Fairfield, George W.,	Real Estate Dealer,	94 Bowles street
Falt, J. Waldo,	Architect,	39 Yale street
Falt, Joseph P.,	Stone Contractor,	147 Westminster street
Farrell, Edward J.,	Wire Weaver,	24 Grover street
Farrelly, Frank T.,	Manager,	162 High street
Fay, Sylvanus B.,	Insurance Agent,	162 Fort Pleasant avenue
Feltham, William,	Electrician,	57 Catharine street
Fernald, Edgar S.,	Newspaper Ex.,	21 Cedar street
Ferree, Frederick W.,	Teller,	13 Harvard street
Ferris, John A.,	Contractor,	340 Oak street, I. O.
Ferris, Joseph A.,	Clerk,	340 Oak street, I. O.
Ferry, William C.,	Milton Bradley Co.,	69 Cottage avenue
Field, Dwight,	Fireman,	66 Pynchon street
Fields, William H.,	Teamster,	30 Bridge street
Fifield, William H.,	None,	17 Grenada terrace
Finn, Thomas P.,	Hostler,	510 Main street
Finnerty, James T.,	Clerk,	90 Greenwood street
Fisher, Philip V.,	Laundryman,	86 Bancroft street
Fisk, Harry G.,	Manufacturer,	367 Union street

NAME.	OCCUPATION.	RESIDENCE.
Fiske, George M.,	Draughtsman,	907 State street
Fitch, Charles H.,	Bookkeeper,	72 Plainfield street
Fitzgerald, Edward P.,	Traveling Salesman,	29 Webster street
Fitzgerald, Gerald T.,	Real Estate Dealer,	20 Acushnet avenue
Fitzgerald, John E.,	Laborer,	90 Tenth street
Fitzpatrick, Patrick C.,	Electrician,	22 Franklin street
Flagg, Arthur E.,	Butter and Egg Dlr.,	35 Parker avenue
Flagg, Fred M.,	Ice Dealer,	648 State street
Flannery, Francis P.,	Clerk,	95 Greenwood street
Fleming, Roland D.,	Clerk,	14 Hawthorn street
Fleming, William H.,	Hackman,	101 Everett street
Fletcher, Theodore F.,	Draughtsman,	18 Kibbe avenue
Flint, Herbert E.,	Civil Engineer,	155 Catharine street
Flood, Thomas M.,	Lineman,	38 Congress street
Foley, James J.,	Mechanic,	69 Greenwood street
Foley, John H.,	None,	21 Mechanic street
Ford, William H.,	Machinist,	32 Fort Pleasant avenue
Foster, Arthur A.,	Farmer,	W. S. Parker street
Fountain, Edward O.,	Mason,	187 Johnson street
Fowler, Fred N.,	Superintendent,	237 Walnut street
Fowler, Ralph N.,	Superintendent,	76 Montrose street
Fowler, Ralph P.,	Manufacturer,	121 Princeton street
Franklin, Alexander G.,	Cigar Maker,	131 Orleans street
Frazier, Nelson,	Optician,	114 Allen street
French, William H.,	Assistant Manager,	32 Chase avenue
Frenier, Harry E.,	Bartender,	49 Patton street
Frissell, Fred B.,	Optician,	93 Bowles street
Fuller, Frank E.,	Real Estate Dealer,	74 Buckingham street
Fuller, William J.,	Stable Keeper,	53 Buckingham street
Gage, Harry P.,	Profiler,	25 George street
Galbraith, Sayward,	Merchant,	287 St. James avenue
Galvin, Jeremiah J.,	Barber,	73 Vernon street
Gardner, George C.,	Architect,	Atwater road
Gardner, Walter R.,	Fitter,	284 Eastern avenue
Garvey, John J.,	Clerk,	27 Congress street
Garvey, Michael F.,	Mechanic,	27 Congress street
Garvey, Patrick,	Laborer,	89 Bond street
Gates, Albert A.,	Bookkeeper,	18 Plainfield street
Gaylord, Henry L.,	Com. Traveler,	573 State street
Gibbons, David B.,	Machinist,	69 Tenth street
Gibbons, James A.,	Bookkeeper,	25 Congress street
Gibson, Robert,	Electrician,	60 Gardner street

NAME.	OCCUPATION.	RESIDENCE.
Gilbert, Charles E.,	Clerk,	55 Dawes street
Gilbert, Thomas B.,	Builder,	180 King street
Gilbert, William H.,	Merchant,	21 Avon place
Gilfoil, George T.,	Stenographer,	15 Elm street
Gill, James Milton,	Ice Dealer,	150 Buckingham street
Gilmore, Charles A.,	Solicitor,	21 Dwight street
Gillmore, Charles F.,	Machinist,	8 Worcester avenue
Glasgow, William J.,	Veterinary Surgeon,	46 State street
Gleason, Albert M.,	Insurance Agent,	156 Main street
Goddard, Elijah M.,	Assistant Supt.,	75 Hampden street, I. O.
Godfrey, William C.,	Agent,	105 Hampden street, I. O.
Goetting, August H.,	Paper Dealer,	767 State street
Goldthwait, Frank H.,	Real Estate Dealer,	Round Hill
Gordon, Albert L.,	Optician,	81 Pineywoods avenue
Gordon, William B.,	Artist,	222 Armory street
Gorman, John,	Switchman,	75 Bond street
Gosselin, Joseph,	Cabinet Maker,	7 Atwood place
Gould, John H.,	None,	30 Orleans street
Graham, Vincent T.,	Plumber,	14 Walden street
Granfield, John J.,	Clerk,	108 Congress street
Granfield, William J.,	Buyer,	100 Hancock street
Graves, Elwood L.,	Merchant,	104 Bowdoin street
Graves, Frank S.,	Bookkeeper,	33 Mattoon street
Graves, Wallace H.,	Driller,	255 Quincy street
Gray, Charles E.,	Carpenter,	W. S. Lester street
Green, Daniel B.,	Milk Dealer,	21 Chapel street
Green, Harry,	Shipping Clerk,	246 Hancock street
Greene, Albert J., Jr.,	Machinist,	17 Howard place
Greene, Benjamin F.,	Com. Traveler,	116 Amherst street
Gregg, William T.,	Mason,	162 Eastern avenue
Griffin, James J.,	Storekeeper,	239 Main street
Griffin, John M.,	Hackman,	148 Patton street
Griffin, Martin J.,	Steam Fitter,	125 Franklin street
Grise, Alfred A.,	Mechanic,	186 Main street
Grise, Benjamin T.,	Insurance Agent,	235 Worcester street, I. O.
Griswold, J. Lyman,	Merchant,	23 Irvington avenue
Grunwaldt, Amandus C.,	Die Sinker,	72 Acushnet avenue
Gunderman, George,	Assistant Supt.,	66 Pynchon street
Guthrie, James C.,	Gilder,	52 Waverly street
Hadd, George H.,	Barber,	128 Union street
Hall, Fred J.,	Manufacturer,	24 Besse place,
Hall, Joseph A.,	Dentist,	63 Pynchon street

NAME.	OCCUPATION.	RESIDENCE.
Hall, Walter E.,	Morgan Env. Co.,	350 Dickinson street
Hall, Wheeler H.,	Bookkeeper,	117 Buckingham street
Haller, John J.,	Cabinet Maker,	81 Colton street
Halloran, Patrick,	Tailor,	95 Greenwood street
Halstead, Charles E.,	Coal Dealer,	47 Merwin street
Halstead, Leroy W.,	Bookkeeper,	47 Birnie avenue
Hamilton, Charles E.,	Draughtsman,	21 Ormond street
Hamilton, Edward C.,	Clerk,	22 Acushnet avenue
Hamilton, George,	O. W. Bullock Co.,	345 Eastern avenue
Hamilton, John J.,	Salesman,	257 Water street
Hancock, George F.,	Painter,	147 Bond street
Handyside, Robert,	Plumber,	76 Spring street
Hanks, Edward S.,	Plumber,	90 Dawes street
Hanley, James J.,	Mailing Clerk,	81 Tenth street
Hannan, Francis,	Insurance Agent,	153 King street
Hannan, Hugh,	Machinist,	5 Federal street
Hanson, Isaac W.,	Foreman,	54 Murray Hill avenue
Harder, Franklin,	Grain Dealer,	76 Westford avenue
Harley, Leon J.,	Superintendent,	44 Westford avenue
Harrigan, Thomas,	Wire Weaver,	191 Carew street
Harrington, John J.,	Laborer,	65 Essex street
Harris, Charles B.,	Teller,	39 Madison avenue
Hart, John W.,	Bookkeeper,	37 Hancock street
Hartt, John E.,	Merchant,	674 Main street
Hartt, Joseph E.,	Clerk,	674 Main street
Harvey, Herbert E.,	Carpenter,	350 North Main street
Harvey, David L.,	Inspector,	29 Florida street
Harwood, William F.,	Bookkeeper,	53 Palmer avenue
Haskins, Arthur S.,	Cashier,	68 Florida street
Haskins, Willard C.,	Machinist,	348 Hancock street
Hastings, Herbert A.,	Gardener,	355 Maple street
Hastings, Herbert C.,	Mechanic'l Engineer,	162 Bowles street
Hatch, Willis C.,	Clerk,	52 Kenwood park
Hatfield, Franklin S.,	Nurse,	37 Pearl street place
Havens, Frederick W.,	Merchant,	72 Monmouth street
Hawes, Harry L.,	Merchant,	593 State street
Hawes, Leon E.,	Merchant,	48 Garfield street
Hawkes, Thomas C.,	Photographer,	70 Byers street
Hawkins, Paul R.,	Manufacturer,	257 Pine street
Hawley, Frank R.,	Real Estate Dealer,	41 Chase avenue
Hawley, Walter S.,	Grocer,	95 Walnut street
Hayden, Joseph W.,	Builder,	888 State street
Hayhurst, James C.,	Artist,	10 Stebbins street

NAME.	OCCUPATION.	RESIDENCE.
Haynes, Lincoln C.,	Merchant,	32 Fairfield street
Haynes, Stanford L.,	Merchant,	11 Thompson street
Hayward, George W.,	Foreman,	59 Auburn street
Hazen, Edward C.,	Com. Traveler,	27 Clifford street
Heald, John,	Manufacturer,	92 Florence street
Healey, Thomas J.,	Engineer,	150 Bridge street
Healy, Charles M.,	Envelope Maker,	131 Butler street
Healy, Martin H.,	Insurance Solicitor,	17 Congress street
Healy, Martin R.,	Laborer,	121 Bliss street
Heath, Charles D.,	Salesman,	58 Beaumont street
Hendee, George M.,	Manufacturer,	30 Jackson street
Hendrick, Alfred B.,	Salesman,	33 Hooker street
Hennessey, Joseph W.,	Insurance Agent,	59 Patton street
Hennessey, Richard A.,	Mason,	65 Alden street
Hibbard, Edwin O.,	Insurance Agent,	131 Marion street
Higgins, Nelson F.,	Florist,	239 Pine street
Higgins, Wallace E.,	Filer,	28 Rutledge avenue
Hill, Charles M.,	Assistant Treasurer,	66 Westford avenue
Hine, Eugene L.,	Plater,	34 Florence street
Hinkley, Isaac A.,	Machinist,	57 Fulton street
Hitchcock, Asher H.,	Optician,	49 Church street
Hitchcock, Herbert B.,	Storekeeper,	91 Abbe avenue
Hoag, David A.,	Clerk,	28 Oak street
Hoar, Daniel,	Storekeeper,	75 Charles street
Hodge, Henry T.,	Gardener,	339 Bay street
Hodges, Walter F.,	Assistant Supt.,	108 Hampden street, I. O.
Holbrook, George B.,	Manufacturer,	130 Maple street
Holcomb, Clifton L.,	Janitor,	126 King street
Holian, Jerry W.,	Marketman,	284 Liberty street
Holland, Dwight,	Manufacturer,	175 Maple street
Holland, Herbert A.,	Clerk,	362 Hancock street
Hollister, Edwin E.,	None,	227 Pine street
Holmes, William F.,	Traveling Salesman,	63 North Main street
Hooker, Louis W.,	Assistant Supt.,	558 Plainfield street
Hooker, Ralph W.,	Clerk,	67 Chestnut street
Hopkins, Allen W.,	Electrician,	21 Salem street
Hosford, William H.,	Brass Finisher,	378 Bay street
Houghton, Edward T.,	Merchant,	184 Maple street
Houghton, Stanley W.,	Machinist,	342 Hancock street
Houghton, William A.,	Clerk,	23 Hawley street
Houlihan, William F.,	Clerk,	9 Essex street
Houston, John Henry,	Grocer,	18 Sargeant street
Hosley, Charles D.,	Jeweler,	1166 Worthington street

NAME.	OCCUPATION.	RESIDENCE.
Howard, Charles E.,	Clerk,	38 Bradford street
Howard, William F.,	Laborer,	42 Keith street
Howe, Fred G.,	Music Dealer,	372 St. James avenue
Howe, George M.,	Manager,	22 Catharine street
Howes, Harry M.,	Clerk,	679 State street
Howlett, George,	Optician,	30 Palmer avenue
Hubbard, Edward H.,	Insurance Agent,	38 Broad street
Hubbard, George D.,	Pickle Mfr.,	57 Alden street
Hubbard, James W.,	Secretary,	214 North street
Hubbell, George H.,	Superintendent,	90 Palmer avenue
Hunkins, William B.,	Foreman,	68 Sargeant street
Hussey, Alonzo T.,	Inspector,	579 State street
Hutchins, Willie A.,	Night Lunchman,	60 Hancock street
Hoyt, Charles L.,	Merchant,	38 Grant street
Hutchins, Melvin,	Insurance Agent,	494 Chestnut street
Hutchinson, Thomas C.,	Insurance Agent,	67 Girard avenue
Hyde, Edward B.,	Meat Peddler,	156 Allen street
Hyde, Henry S., Jr.,	Manufacturer,	29 Thompson street
Hyde, Judson F.,	Tinsmith,	108 Alden street
Hynes, Andrew T.,	Compositor,	55 Cass street
Hynes, Patrick J.,	Manufacturer,	14 Fremont street
Hynes, William J.,	Reporter,	57 North street
Ireland, Charles,	Janitor,	476 Main street
Ireland, Oscar B.,	Actuary,	291 Maple street
Irwin, Thomas W.,	Clerk,	85 Hampden street, I. O.
Ivers, John S.,	Plumber,	54 Park street
Ives, Watson S.,	Foreman,	69 Palmer avenue
James, Arthur L.,	Bookkeeper,	116 Florence street
James, Edward L.,	Com. Traveler,	223 Long Hill street
Jennings, Charles E.,	Blacksmith,	N. S. Wilbraham road
Jensen, Franz G.,	Merchant,	199 Forest Park avenue
Johnson, Charles B.,	Mechanic,	358 Chestnut street
Johnson, Henry R.,	Merchant,	53 Fairfield street
Johnson, Ira,	Liveryman,	347 North Main street
Johnson, Irving L.,	Jeweler,	29 Central street
Johnson, Walter E.,	Manufacturer,	29 Warriner avenue
Johnson, Willis L.,	Shipping Clerk,	28 Andrew street
Johnstone, William,	Bookkeeper,	102 Princeton street
Jones, William E.,	Tool Maker,	741 Carew street
Joslyn, Marshall,	Superintendent,	78 Alexander street

NAME.	OCCUPATION.	RESIDENCE.
Joyce, John T.,	Salesman,	23 Greenwood street
Joyce, Thomas H.,	Paper Hanger,	104 Margaret street
Kane, Joseph H.,	Paper Cutter,	12 Richelieu street
Keefe, Arthur J.,	Bill Clerk,	596 Worthington street
Keeney, Delos C.,	Restaurateur,	43 Lafayette street
Keith, Arthur E.,	Yard Master,	23 North street
Keith, John E.,	Fish Dealer,	167 Marion street
Kelley, John,	Lineman,	101 Fulton street
Kelley, Thomas A.,	Cigar Maker,	102 State street
Kelliher, Maurice,	Laborer,	119 Franklin street
Kellogg, Fred T.,	Envelope Mfr.,	120 Maple street
Kellogg, Harry M.,	Com. Traveler,	356 Belmont avenue
Kelso, Edward D.,	Builder,	42 King street
Kelton, Chester M.,	Tailor,	43 Princeton street
Kemater, Charles W.,	Bookkeeper,	43 Cornell street
Kemater, George H.,	Asst. Treasurer,	245 St. James avenue
Kemater, John C.,	Teller,	30 Berkeley street
Kendall, Marcus M.,	Coal Dealer,	21 Oak Grove avenue
Kennefick, John J., Jr.,	Clerk,	398 Chestnut street
Kennelly, John W.,	Plumber,	59 Ashley street
Kennely, Daniel John,	Pressman,	5 Dale street
Kenyon, Thomas A.,	Proprietor,	14 Lafayette street
Keyes, Henry S.,	Bookkeeper,	116 Berkshire street
Kibbe, Charles A.,	Retired,	34 Pearl street
Kibbe, Clifford P.,	Fish Peddler,	24 Sheldon street
Kibbe, George E.,	Clerk,	679 Worthington street
Kibbe, Howard R.,	Shipping Clerk,	679 Worthington street
Kimball, William H.,	Merchant,	245 Carew street
Kimberly, J. Burton,	Clerk,	436 Central street
Kimpton, Daniel J.,	Clerk,	207 Pine street
King, Edwin P.,	Farmer,	E. S. Parker street
King, Ernest C.,	Box Maker,	20 Florence street
King, Rufus H.,	Com. Traveler,	47 Florence street
King, William E.,	Foreman,	24 Quincy street
King, William L.,	Farmer,	W. S. Berkshire street
Kingston, John J.,	Clerk,	192 Franklin street
Kirkham, J. Stuart,	Merchant,	107 Maplewood terrace
Kirkham, James W.,	President,	275 Maple street
Kirwan, William P.,	Manager,	254 Carew street
Kittel, Ernest J.,	Jeweler,	37 Catharine street
Knapp, Henry,	Cigar Maker,	50 York street
Knott, George P.,	Com. Traveler,	92 Belmont avenue

NAME.	OCCUPATION.	RESIDENCE.
Knowles, William,	Blacksmith,	13 Cass street
Knox, Fred A.,	Shipping Clerk,	49 Allendale street
Knox, Harry A.,	Manufacturer,	4 Dorchester street
Ladd, Frank E.,	Jeweler,	64 Buckingham street
Ladner, Archibald,	Insurance Agent,	115 Princeton street
Lampe, Herman,	Cigar Packer,	68 Massasoit street
Landon, Harry B.,	Jeweler,	N. S. Wilbraham road
Lane, Fred L.,	None,	140 Hampden street, I. O.
Lane, John S.,	Com. Traveler,	126 Princeton street
Lange, William,	Cabinet Maker,	58 Eastern avenue
Langford, Joseph H.,	Plumber,	69 Vine street
Langlands, William,	Die Sinker,	78 Grover street
LaRiviere, Octave A.,	Builder,	166 Main street, I. O.
Larkin, John E.,	Com. Traveler,	152 Central street
Lavigne, Eugene A.,	Traveling Salesman,	39 Beech street
Lawler, Richard J.,	Mechanic,	104 Congress street
Lawton, Patrick A.,	Molder,	89 Patton street
Lazelle, Edward J.,	Photographer,	34 Vernon street
Leary, Christopher,	Coal Dealer,	65 Kenwood park
Leary, Daniel P.,	Clerk,	211 Main street
Leary, John C.,	Grocer,	77 Acushnet avenue
Legein, Fernand C.,	Caterer,	50 Howard street
Leitch, William,	Dentist,	N. S. Bay road
Leonard, Archer F.,	Com. Traveler,	71 Marengo park
Leonard, George Marston,	Clerk,	30 Avon place
Leshure, Willard P.,	Manufacturer,	561 North Main street
Levison, Sigmund,	Merchant,	1030 Worthington street
Lewis, Arthur B.,	Merchant,	233 Forest Park avenue
Lewis, Bert A.,	Foreman,	38 Alfred street
Lewis, Charles C.,	Merchant,	130 Long Hill street
Lewis, David H.,	Electrician,	297 Oakland street
Lewis, James W.,	Electrician,	29 Mattoon street
Lewis, John R.,	Grocer,	139 King street
Lewis, William H.,	Traveling Salesman,	162 Northampton avenue
Leyden, Francis,	News Agent,	188 Carew street
Libbey, William S.,	Carpenter,	27 Jefferson avenue
Light, William J.,	Repairer,	64 Cleveland street
Lillie, Lucien B.,	Bookkeeper,	34 Cornell street
Lincoln, Frank A.,	Proof Reader,	299 Walnut street
Lincoln, William A.,	Banker,	92 Maple street
Lloyd, Harry R.,	Asst. City Editor,	949 State street
Lloyd, Thomas H.,	Traveling Salesman,	56 Bancroft street

NAME.	OCCUPATION.	RESIDENCE.
Lockwood, Alfred L.,	Cutter,	115 Tyler street
Lombard, Ira S.,	Farmer,	E. S. Parker street
Lombard, Winthrop K.,	Manager,	38 Osgood street
Lonergan, George W.,	Clerk,	70 Charles street
Long, Arthur E.,	Floor Walker,	368 St. James avenue
Loomis, Dwight,	Tobacco Dealer,	727 State street
Lovely, George V.,	Dancing Master,	274 Worthington street
Lovemoney, David C.,	Optician,	60 Adams street
Lord, George,	Carpenter,	26 Calhoun street
Lovett, George E.,	Shoemaker,	85 Bond street
Ludden, William P.,	Stone Cutter,	143 North street
Luther, Henry L.,	Wood Worker,	25 Worcester avenue
Lyman, Edwin H.,	Musician,	83 Central street
Lyman, George W.,	Clerk,	17 Massasoit street
Lyman, Henry D.,	Printer,	202 Union street
Lyman, James M.,	Expressman,	25 Catharine street
Lynch, Joseph,	Miller,	126 Tenth street
Lynch, Patrick J.,	Master Mechanic,	45 Worcester street, I. O.
Lynn, Robert,	Manufacturer,	69 Kenwood park
Lyon, Charles S.,	Agent,	39 North street
Lyons, Michael H.,	Merchant,	323 Main street
Mack, Michael,	Baker,	1 Bond place
Mackey, Joseph E.,	Baker,	15 Margaret street
Maguire, John J.,	Clerk,	47 Everett street
Maloney, Charles H.,	Steam Fitter,	146½ State street
Maloney, William F.,	Buyer,	60 Bradford street
Manning, Daniel,	Retired,	82 Congress street
Manning, James,	Cooper,	61 Linden street
Manning, Thomas,	Merchant,	144 King street
Manning, Thomas,	Mechanic,	159 State street
Mansfield, Charles W.,	Traveling Salesman,	426 Worthington street
Mansfield, George E., Jr.,	Baker,	81 Bliss street
Mansfield, Matthew R.,	Asst. Secretary,	117 Essex street
Marsh, Henry D.,	Asst. Treasurer,	9 Buckingham place
Marsh, Henry E.,	Hotel Keeper,	96 Sumner avenue
Martin, Philip H.,	Draughtsman,	21 Reed street
Martin, Walter A.,	Cashier,	63 Palmer avenue
Maryott, Edgar F.,	Bookkeeper,	39 Wendell avenue
Mason, Charles L.,	Shipping Clerk,	73 Oak street, I. O.
Mason, Herbert W.,	Milk Dealer,	116 Florence street
Mathison, Arthur,	Manufacturer,	80 Ingersoll grove
Mathison, Arthur A.,	Bookkeeper,	15 Massachusetts avenue

NAME.	OCCUPATION.	RESIDENCE.
Matthews, John E.,	Upholsterer,	40 Brookline avenue
Mayo, Alfred N.,	Merchant,	151 Maple street
Maynard, Edward W.,	Merchant,	127 Lebanon street
McCall, John A.,	Clerk,	150 Tenth street
McCann, William J.,	Com. Traveler,	149 Carew street
McCarthy, Edward,	Hostler,	30 Franklin street
McCarthy, Jeremiah,	Teamster,	59 Greenwood street
McCarthy, Patrick,	Grain Handler,	92 Patton street
McCulloch, Henry B.,	Transfer Clerk,	40 Clifton avenue
McCullock, Charles F.,	Expressman,	36 Stebbins street
McDonald, Edward J.,	Assistant Supt.,	75 Linden street
McElwain, Charles C.,	Manufacturer,	46 Federal street
McGregor, Robert S.,	Shipping Clerk,	869 Worthington street
McIntire, Arthur H.,	Plumber,	102 Hickory street
McKinney, Richard,	Real Estate Dealer,	212 Eastern avenue
McKnight, Charles H.,	Real Estate Dealer,	756 State street
McLean, Andrew,	Tool Maker,	585 Armory street
McNamara, Francis T.,	Manager,	96 Central street
Meacham, Edward A.,	Builder,	121 Cedar street
Meehan, Frank T.,	Foreman,	146 Essex street
Melvin, Frank L.,	Bookkeeper,	45 McKnight street
Merchant, Charles,	Plumber,	16 Nelson avenue
Merriam, Edward A.,	Publisher,	111 Princeton street
Merriam, Walter S.,	Printer,	14 Stebbins street
Merriam, William C. B.,	Druggist,	101 Princeton street
Merrick, Edward P.,	Clerk,	262 North street
Merrill, Nathaniel P.,	Traveling Salesman,	50 Mattoon street
Merry, Alfred B.,	Salesman,	31 Winchester street
Mesick, DeWitt,	Grain Dealer,	59 Bradford street
Mesick, Peter V.,	Tea Peddler,	46 Florence street
Methven, Alexander C.,	Clerk,	14 Brace street
Miller, D. Edward,	President,	52 Pearl street
Miller, George W.,	Foreman,	53 Worcester street, I. O.
Miller, Morton L.,	Foreman,	41 Bradford street
Millette, Eli,	Foreman,	15 Allendale street
Mills, Albert E.,	Clerk,	55 Catharine street
Miner, Ellis W., Jr.,	Paymaster,	114 Calhoun street
Mitchell, Patrick J.,	Grain Dealer,	145 Bond street
Mitchell, Frank B.,	Traveling Salesman,	84 Buckingham street
Mize, George H.,	Manager,	151 Westminster street
Monahan, John F.,	Cook,	48 Boylston street
Mooney, John,	Laborer,	20 Emery street
Moore, Arthur L.,	Manager,	433 North Main street

NAME.	OCCUPATION.	RESIDENCE.
Moore, Hiram C.,	Photographer,	4 Mattoon street
Moore, John J.,	Electrician,	275 Bay street
Moore, Prentice B.,	Auctioneer,	410 Liberty street
Moran, Edward J.,	Insurance Agent,	42 Acushnet avenue
Moran, James,	Laborer,	40 Emery street
Moriarty, Ambrose,	Boiler Maker,	240 Franklin street
Morrill, Louis E.,	Mechanic,	223 Worthington street
Morris, Lewis F.,	Bookkeeper,	25 Stebbins street
Morse, Charles F.,	Wood Worker,	64 Adams street
Morse, Frank R.,	Merchant,	31 Salem street
Morse, Valentine B.,	Insurance Agent,	162 Worcester street, I. O.
Morse, Walter G.,	Manufacturer,	234 Pearl street
Moseley, Lewis H.,	Carpenter,	85 Sherman street
Morton, Frederick T.,	Foreman,	8 Walter street
Moynahan, Patrick,	Machinist,	79 Everett street
Muir, James,	Contractor,	347 Bay street
Mulligan, Walter L.,	Manager,	57 Avon place
Mulroney, Joseph K.,	Tinner,	24 Central street
Mundell, William F.,	Pattern Maker,	189 Oak street, I. O.
Munn, Charles C.,	Com. Traveler,	95 Sumner avenue
Munroe, Robert C.,	Clerk,	33 McKnight street
Munsell, Henry T.,	Plumber,	768 Worthington street
Murkland, Woodward E.,	Contractor,	44 Lafayette street
Murphy, Edward J.,	Real Estate Dealer,	887 State street
Murphy, Eugene,	Laborer,	121 Bond street
Murphy, Fred C.,	Real Estate Dealer,	245 North street
Murphy, John F.,	Clerk,	162 Chestnut street
Murphy, Michael,	Drug Clerk,	55 Court street
Murphy, Patrick A.,	Electrotyper,	148 Everett street
Murphy, Redmond,	Mechanic,	rear 133 Franklin street
Murray, Andrew J.,	Foreman,	71 Wilcox street
Murray, Charles E.,	Clerk,	162 Chestnut street
Murray, Frank A.,	Taber Prang Co.,	47 Chapin street
Murray, George A.,	Decorator,	73 Oak street
Murray, William J.,	Foreman,	113 Hancock street
Nevins, William H.,	Treasurer,	150 Pearl street
Newell, William Henry,	Merchant,	15 Richelieu street
Newton, Charles B.,	Carpenter,	92 Bancroft street
Nichols, Bert F.,	Clerk,	162 Central street
Nichols, Faxon E.,	Clerk,	617 Belmont avenue
Nicholson, Joseph,	Paper Hanger,	222 Eastern avenue
Niles, Orville W.,	Traveling Salesman,	43 Calhoun street

NAME.	OCCUPATION.	RESIDENCE.
Noble, LeRoy R.,	Clerk,	24 Winchester street
Noble, Preston A.,	Engraver,	56 Palmer avenue
Nolan, Daniel J.,	Blacksmith,	109 Congress street
Nolan, John W.,	Bookkeeper,	96 Franklin street
Noonan, Charles H.,	Ice Peddler,	220 Pendleton avenue
Norcross, James F.,	Retired,	187 Sumner avenue
Nugent, William J.,	Osteopathist,	38½ Harrison avenue
Nutting, Frank,	Musician,	22 Wendell avenue
Nye, Theodore H.,	Merchant,	11 Ingersoll grove
O'Brien, James D.,	Clerk,	26 Besse place
O'Brien, John,	Foreman,	156 Florence street
O'Brien, John P.,	Hack Driver,	112 Greenwood street
O'Brien, Thomas F.,	Machinist,	66 Pynchon street
O'Connell, John J.,	Bill Clerk,	43 Clinton street
O'Connor, Edward W.,	Barber,	31 Cass street
O'Connor, James,	Freight Handler,	113 Franklin street
O'Donnell, William,	Teamster,	132 Franklin street
Oldfield, Walter,	Traveling Salesman,	22 Cliftwood avenue
Oliver, Mitchell W.,	Floor Walker,	42 Broad street
Olmstead, William H.,	Foreman,	82 Morris street
Olmsted, Frederick A.,	Chemist,	49 North street
O'Malley, Michael J.,	Bookbinder,	516 Liberty street
Otis, Dwight B.,	Conductor,	113 Patton street
Owen, George A.,	Mechanic,	60 Spring street
Owens, William H.,	Printer,	14 Armory street
Packard, Azel A.,	Merchant,	254 Union street
Packard, Wilbur H.,	Machinist,	19 Orchard street
Page, Charles B.,	Tinner,	53 Pasco road
Palmer, Frank A.,	Com. Traveler,	48 Kenwood park
Palmer, Myron F.,	Instructor,	37 Bancroft street
Parker, Charles,	Lithographer,	327 Main street
Parker, Charles O.,	Adv. Solicitor,	221 High street
Parker, Hayden D.,	Mat Cutter,	510 Liberty street
Parker, John W.,	Agent,	11 Dartmouth street
Parks, Charles,	Painter,	74 Park street
Parks, William H.,	President,	1 Lincoln street
Parlett, Edwin J.,	Architect,	152 Mulberry street
Parsons, Charles H.,	Real Estate Dealer,	619 State street
Parsons, Frederick D.,	Insurance Agent,	19 Elliott street
Parsons, Taylor R.,	Agent,	28 Berkshire street
Parsons, William E.,	Real Estate Dealer,	1054 Worthington street

NAME.	OCCUPATION.	RESIDENCE.
Parsons, William R.,	Clerk,	30 Bradford street
Partridge, Frederick J.,	Foreman,	226 Armory street
Patenaude, Charles A.,	Barber,	180 Union street
Patnode, Goulding S.,	Barber,	486 Worthington street
Patton, Asa K., Jr.,	Manager,	100 Pearl street
Payne, Richard S.,	Superintendent,	151 Lebanon street
Pease, Arthur A.,	Com. Traveler,	40 Catharine street
Pease, Austin H.,	Clerk,	578 North Main street
Pease, Charles D.,	Clerk,	18 Clark street
Pease, Edward W.,	Contractor,	333 Oakland street
Pease, Frank H.,	Mechanic,	29 Wendell avenue
Pease, Frank J.,	Clerk,	126 Pineywoods avenue
Pease, Oliver A.,	Carpenter,	688 Main street
Pease, James H.,	Electrician,	146 Hampshire street
Pease, Raymond W.,	Clerk,	333 Oakland street
Pease, Samuel S.,	Druggist,	24 Mountainview street
Pease, William D.,	Park Keeper,	S. S. Plumtree road
Pender, John L.,	Editor,	284 Dickinson street
Pendergast, John J.,	Shoe Clerk,	120 Main street
Penney, George H.,	Clerk,	238 Main street
Penny, Enos E.,	Jeweler,	54 Jackson street
Perkins, Charles E.,	Photographer,	37 Bradford street
Perry, Edward A.,	Manufacturer,	10 Princeton street
Peters, Charles W.,	Machinist,	166 Union street
Petitclerc, Louis,	Laborer,	41 Ladd street
Phelps, Charles R.,	Salesman,	38 Seventh street
Phillips, Benjamin,	Insurance Agent,	15 Warriner avenue
Phillips, George W.,	Insurance Agent,	334 Main street, I. O.
Phillips, Henry M.,	Secretary,	284 State street
Pillsbury, Alfred F. H.,	Insurance Agent,	1176 Worthington street
Pinney, Edward J.,	Real Estate Dealer,	85 Westford avenue
Pinney, Edward W.,	None,	350 Central street
Plant, Alexander F.,	Canvasser,	202 Union street
Pomeroy, George E.,	Mechanic,	(A) 344 Chestnut street
Pooley, Arthur H.,	Marketman,	64 Greene street
Porter, Alfred N.,	Paper Cutter,	44 Abbe avenue
Porter, James H.,	Carpenter,	79 Quincy street
Porter, William P.,	Merchant,	4 Ingraham avenue
Potter, Charles W.,	Cabinet Maker,	39 Vernon street
Potter, Frank W.,	Photographer,	139 Bowles street
Potter, George W.,	Polisher,	41 Rutledge avenue
Powell, Benjamin,	Clerk,	109 Allen street
Powell, Frank E.,	Bookkeeper,	20 Amaron street

NAME.	OCCUPATION.	RESIDENCE.
Powers, Edward S.,	Merchant,	453 Sumner avenue
Powers, Joseph F.,	Electrician,	59 Cambridge street
Powers, Lewis J., Jr.,	Manufacturer,	302 Union street
Powers, Matthew H.,	Laborer,	31 Linden street
Pratt, Arthur W.,	Engineer,	51 Pynchon street
Pratt, Austin J.,	Plumber,	25 Catharine street
Pratt, Ormsby L.,	Milk Peddler,	60 Alden street
Pratt, William A.,	Grocer,	232 Orange street
Premo, Albert,	Musician,	20 Montrose street
Prendiville, John M.,	Brewer,	111 Greenwood street
Preston, Ebin,	Milk Dealer,	21 Berendo avenue
Prevost, John B.,	Builder,	32 Richelieu street
Price, William R.,	Com. Traveler,	15 Mattoon street
Prickett, Waldo P.,	Clerk,	55 Dresden street
Pritzlaff, August,	Cabinet Maker,	245 Quincy street
Proctor, Charles B.,	Broker,	257 Fort Pleasant avenue
Proctor, Floyd G.,	Carpet Measurer,	40 Beech street
Prouty, Alfred D.,	Real Estate Dealer,	125 Andrew street
Prouty, George C.,	Manufacturer,	168 Central street
Prouty, Henrie A.,	Traveling Salesman,	14 Mattoon street
Prouty, Ralph Gardner,	Clerk,	14 Mattoon street
Pynchon, Edward,	Teller,	30 Sargeant street
Pynchon, James H.,	Insurance Agent,	10 Chestnut street
Pynchon, Joseph F.,	Supply Agent,	30 Sargeant street
Quimby, Irving A.,	Merchant,	30 Pearl street
Quinn, John P.,	Reporter,	100 Franklin street
Quinn, Patrick H.,	Blacksmith,	609 State street
Quinn, William F.,	Clerk,	321 Main street, I. O.
Quint, George W.,	Confectioner,	182 North Main street
Quirk, John T.,	Plumber,	122 Magazine street
Radford, Frank D.,	Foreman,	545 Main street
Rand, George H.,	Agent,	48 Carew street
Ranney, William,	Painter,	129 Greenwood street
Ransehousen, Herbert H.,	Insurance Agent,	939 State street
Ransehousen, John C.,	Insurance Agent,	29 Sherman street
Rayner, William T.,	Manager,	513 Belmont avenue
Reed, George F.,	Superintendent,	31 Sheldon street
Reed, John W.,	Com. Traveler,	350 St. James avenue
Reilly, Francis E.,	Mason,	34 New street
Reinbold, Charles Francis,	Stone Writer,	492 Liberty street
Remkus, Edwin C.,	Insurance Agent,	40 Churchill street

NAME.	OCCUPATION.	RESIDENCE.
Reynolds, F. Luther,	Salesman,	19 Bradford street
Rice, Frank C.,	Lumber Dealer,	104 Maple street
Rice, George W.,	Real Estate Dealer,	199 High street
Rich, Edwin C.,	Clerk,	575 Union street
Rich, Henry F.,	Salesman,	142 Carew street
Richards, Charles T.,	Victor Sptg. Goods Co.,	46 Sargeant street
Richards, Edward S.,	Com. Traveler,	33 Mattoon street
Richards, Harold H.,	Publisher,	81 Clarendon street
Richmond, Frank B.,	Bookkeeper,	26 High street
Ring, Jesse E.,	Die Sinker,	452 Central street
Ripley, James H.,	Manufacturer,	65 Ingersoll grove
Rising, Bennett A.,	Carpenter,	619 Plainfield street
Rist, George H.,	Merchant,	Allen cor. White street
Ritchie, James S.,	Cashier,	75 Harvard street
Robbins, Edwin G.,	Towel Supply Co.,	25 Belgrade place
Robbins, Fred W.,	Phelps Pub. Co.,	45 Malden street
Roberts, Reuben,	Clerk,	24 Bay street
Robertson, Fred L.,	Clerk,	52 Rutledge avenue
Robinson, Charles L.,	Teller,	38 Sterns terrace
Robinson, Fred F.,	Mechanic,	2 Genesee street
Robinson, William H.,	Clerk,	132 Abbe avenue
Roche, William J.,	Bridge Builder,	51 Franklin street
Rodd, Adolphus,	Insurance Broker,	23 Warriner avenue
Rogers, Arthur H.,	Manufacturer,	22 Temple street
Rogers, Charles,	Optician,	46 Locust street
Rogers, George H.,	Reporter,	340 Walnut street
Rogers, Thomas H.,	Clerk,	68 Acushnet avenue
Rooney, Patrick J.,	Teamster,	108 Congress street
Rosenberg, Frederick W.,	Clerk,	46 Bancroft street
Rowley, H. Curtis,	Publisher,	S. S. Crescent avenue
Rude, Edwin G.,	Merchant,	42 Sterns terrace
Russell, Charles P.,	Bookkeeper,	99 Alden street
Russell, Napoleon,	Builder,	191 Springfield street
Russell, Patrick W.,	Grocer,	33 Broad street
Russell, Thomas F.,	Carpenter,	154 Chestnut street
Ryan, James L.,	Foreman,	59 Charles street
Ryan, John,	Slater,	75 Greenwood street
Ryan, William,	Laborer,	158 Bridge street
Ryan, William G.,	Prompter,	299 Belmont avenue
Sackett, Frank H.,	Contractor,	831 Worthington street
Sackett, Fred E.,	Contractor,	844 Worthington street
Sackett, Richard J.,	Clerk,	46 Edwards street

NAME.	OCCUPATION.	RESIDENCE.
Sadler, William L.,	Druggist,	48 Magnolia terrace
Sampson, Frederick H.,	Salesman,	61 Sargeant street
Sandman, Henry J.,	Bookkeeper,	88 Acushnet avenue
Sarsfield, Michael J.,	Collector,	77 Main street
Saunders, Eugene H.,	Foreman,	34 Alfred street
Savoy, Charles E.,	Janitor,	rear 172 Bridge street
Sawin, Farnum E.,	Road Master,	67 Alexander street
Sawtell, J. Otis,	Merchant,	162 Westminster street
Scanlan, James,	Button Maker,	404 Chestnut street
Schermerhorn, John D.,	Shipping Clerk,	403 Walnut street
Scheuing, Louis,	Secretary,	320 Union street
Schlatter, William,	Florist,	449 Bay street
Schnetzer, Walter R.,	Baker,	41 Greenwich street
Schofield, Harry,	Foreman,	49 Ringgold street
Schortmann, C. Paul,	Paper Hanger,	56 Lowell street
Schrader, William F.,	Mechanic,	28 Rutledge avenue
Scott, John,	Carpenter,	12 Ringgold street
Scott, Marshall F.,	Laundryman,	48 Warner place
Scullane, Frank E.,	Lithographer,	603 Chestnut street
Searle, John A.,	Milk Dealer,	133 Orleans street
Severance, John N.,	Machinist,	27 Pearl street place
Sexton, Henry W.,	Carpenter,	217 Worthington street
Sexton, Charles S.,	Druggist,	20 Homer street
Sexton, J. Albert,	Druggist,	340 Belmont avenue
Seymour, Charles E.,	Liveryman,	52 Pearl street
Shannon, William J.,	Clerk,	91 Tenth street
Sharrocks, John,	Insurance Agent,	76 Central street
Shattuck, Frank H.,	Com. Traveler,	32 Dartmouth street
Shattuck, Joseph, Jr.,	Treasurer,	37 George street
Shaw, George D.,	Laundryman,	E. S. Coleman street
Shaw, George F.,	Salesman,	41 Rutledge avenue
Shaw, Harry G.,	Rubber Type Maker,	171 Walnut street
Shaw, John L.,	Advertising Agent,	95 High street
Shea, John B.,	Butcher,	24 York street
Shea, Mortimer W.,	Lithographer,	58 Bliss street
Shea, Patrick,	Laborer,	266 Ferry street
Shea, Timothy J.,	Carpenter,	60 Bliss street
Sheehan, Edward J.,	Filer,	45 Linden street
Sheehan, Paul,	Cigar Maker,	45 Hawthorn street
Sheldon, Clarence M.,	Carpenter,	18 Carew street
Shepardson, Perry L.,	Collector,	24 Calhoun street
Shepherd, William H.,	Gen. Ticket Agent,	23 Main street
Sheppard, Thomas W.,	Machinist,	49 Worcester avenue

NAME.	OCCUPATION.	RESIDENCE.
Sherwood, Samuel D.,	Insurance Agent,	113 Harvard street
Shores, George H.,	Charcoal Dealer,	107 Pendleton avenue
Shuart, William H.,	President,	27 Mulberry street
Simons, John F.,	Asst. Librarian,	154 Alden street
Skinner, Arthur J.,	Clerk,	573 State street
Skinner, Henry H.,	Banker,	303 Maple street
Slayton, C. Davis,	Clerk,	24 Wareham street
Sleigh, George D.,	Buyer,	39 Westminster street
Small, Lewis C.,	Salesman,	504 Liberty street
Smith, Albert A.,	Florist,	N. S. Boston road
Smith, Albert E.,	Treasurer,	26 Northampton avenue
Smith, Charles H.,	Paper Maker,	70 Alexander street
Smith, Edmund H.,	Merchant,	75 Mulberry street
Smith, Edward L.,	Electrician,	758 Liberty street
Smith, Edwin S.,	Asst. Bookkeeper,	68 Jefferson avenue
Smith, George,	Plumber,	75 Commonwealth avenue
Smith, Herbert W.,	Storekeeper,	44 Palmer avenue
Smith, John B.,	Manager,	240 Central street
Smith, Luther J.,	Bookkeeper,	60 Acushnet avenue
Smith, Osman H.,	Butcher,	179 Main street
Smith, Walter H.,	Machinist,	82 Alexander street
Snow, George L.,	Assembler,	33 Bancroft street
Somes, J. Kirk,	Canvasser,	184 Maple street
Southworth, Mase S.,	Chemist,	N. S. Pine street
Sparkes, Carlton H.,	Pattern Maker,	50 Oak Grove avenue
Spaulding, Walter L.,	Bookkeeper,	67 Berkshire street
Spear, Edwin C.,	Treasurer,	130 Westminster street
Spear, H. Edward,	Clerk,	238 Sumner avenue
Spence, Henry C.,	Manager,	111 Myrtle street
Spencer, Charles B.,	Machinist,	168 Union street
Spencer, Charles C.,	Merchant,	56 High street
Spooner, Myron B.,	Traveling Salesman,	144 Harvard street
Sprague, Harry L.,	Designer,	31 Sheldon street
Springer, Oscar F.,	Salesman,	92 Central street
Squier, Robert L.,	Clerk,	134 Carew street
Squire, Harry A.,	Manufacturer,	82 Plainfield street
Stack, Edward,	Insurance Agent,	43 Howard street
Stacy, Frank E.,	Bookkeeper,	176 Maple street
Stagnaro, Francesco,	Fruit Dealer,	24 Bliss street
Stagnaro, Frank W.,	Time Keeper,	99 Union street
Stannard, Smith,	Salesman,	379 Allen street
St. Clair, Burt M.,	Invoice Clerk,	86 Alden street
Steele, Charles H.,	Agent,	5 Brown street

NAME.	OCCUPATION.	RESIDENCE.
Steele, John,	Clerk,	17 Clifton avenue
Stevens, Clarence H.,	Machinist,	11 Fremont street
Stevens, Edward J.,	Collector,	64 Cambridge street
Stevenson, George H.,	Overseer,	118 Oak street, I. O.
Stevenson, William M.,	Superintendent,	88 Hampden street, I. O.
St. Germain, Albert J.,	Barber,	66 Pynchon street
St. John, Joseph,	Barber,	431 Main street
St. John, Peter,	Barber,	31 Rutledge avenue
Stone, Charles A.,	Merchant,	176 Pearl street
Stone, Roy L.,	Clerk,	104 Central street
Storms, Albert J.,	Superintendent,	420 North Main street
Strand, Harrie,	Printer,	167 Johnson street
Strange, Frank J.,	Foreman,	641 Chestnut street
Strangford, Samuel F.,	Proof Reader,	92 Andrew street
Streeter, Morrill E.,	Blacksmith,	185 Main street, I. O.
Strousse, Abraham J.,	Foreman,	7 Genesee street
Sturtevant, Fred H.,	Manager,	219 Florida street
Sullivan, Dennis,	Plumber,	240 Water street
Sullivan, James A.,	Clerk,	57 Everett street
Sullivan, John M.,	Assistant Supt.,	57 Everett street
Sullivan, Timothy G.,	Plumber,	553 Main street
Sullivan, William T.,	Metal Worker,	68 Park street
Summers, Sidney G.,	Contractor,	34 Salem street
Surprise, Martin V. B.,	Barber,	181 Buckingham street
Swan, Frank N.,	Manufacturer,	70 Bellevue avenue
Swan, Livy B.,	Carpenter,	466 North Main street
Switzer, Andrew W.,	Millwright,	45 Worcester avenue
Switzer, Arthur H.,	Com. Traveler,	24 Arch street
Taft, Edwin R.,	Photographer,	39 Harvard street
Tait, Frank D.,	Milk Dealer,	37 Vinton street
Talmadge, Frank S.,	Carpenter,	4 Johnson street
Tapley, Albert P.,	Bookkeeper,	22 Cornell street
Tapley, George,	Bookkeeper,	15 Vassar street
Tapley, George K.,	Agent,	88 Bellevue street
Tapley, William W.,	Manufacturer,	266 Union street
Tarbell, Fred E.,	Machinist,	67 Acushnet avenue
Tarbox, Paul W.,	Bookkeeper,	30 Allendale street
Tarbox, William H.,	Machinist,	255 Main street, I. O.
Taylor, Albert H.,	Manager,	174 Maple street
Taylor, Crosland, 2d,	Dyer,	174 King street
Taylor, Edgar R.,	Laundryman,	20 Johnson street
Taylor, Elvin C.,	Solicitor,	29 Stebbins street
Taylor, George W.,	Locksmith,	2 Lebanon place

NAME.	OCCUPATION.	RESIDENCE.
Taylor, Patrick.	Motorman,	22 Cass street
Tehan, Thomas W.,	Expressman,	27 Ashley street
Terrell, Charles B.,	Teamster,	713 Belmont avenue
Tetrault, Eusebe F.,	Retired,	75 Elm street
Thayer, Charles H.,	Coal Dealer,	75 Berkshire street
Thayer, Charles S.,	Insurance Clerk,	486 Chestnut street
Thayer, Harrison C.,	Kibbe Bros.,	14 Spruce street
Thomas, Frank P.,	Foreman,.	237 Chestnut street
Thomas, John J.,	Lithographer,	56 Webster street
Thompson, Alexander D.,	Horse Dealer,	131 Fort Pleasant avenue
Thomson, William J.,	Carpenter,	911 Armory street
Tobin, James,	Brewer,	310 Chestnut street
Tolman, George A.,	Carpenter,	34 Rutledge avenue
Tolman, John,	Merchant,	24 Allendale street
Toomey, Thomas D.,	Carriage Painter,	18 Bliss street
Tower, Charles W.,	Cabinet Maker,	47 Jefferson avenue
Tower, William J.,	Bookkeeper,	192 Union street
Townsend, James Leslie,	Com. Traveler,	40 Hebron street
Tracy, J. Frank,	Dentist,	38 Maple street
Trask, Harry B.,	Com. Traveler,	114 Yale street
Truesdell, William E.,	Merchant,	74 Kenwood park
Turner, Arthur H.,	Organist,	96 Central street
Turner, George K.,	Editor,	52 High street
Tuttle, Manning,	Inspector,	72 Florida street
Underwood, Herbert D.,	Foreman,	22 Thomas street
Underwood, Warren P.,	Merchant,	57 Clarendon street
Upson, Royal R.,	Real Estate Dealer,	152 Marion street
Van Norman, Charles E.,	Manager,	98 Yale street
Van Norman, Frederick D.,	Superintendent,	98 Yale street
Van Norman, George H.,	Photographer,	98 Yale street
Van Vlack, William C.,	Clerk,	5 Mattoon street
Vaughan, Eugene M.,	Drop Forger,	20 Walter street
Veley, George W.,	Carpenter,	79 Montrose street
Vincens, George E.,	Cigar Maker,	76 Howard street
Wadsworth, Charles W.,	Salesman,	45 Allendale street
Waite, J. Edson,	Bookbinder,	26 Hebron street
Wakefield, Frank A.,	Stamp Maker,	17 Dawson avenue
Walker, Charles L.,	Clerk,	117 Greenwood street
Walkner, Thomas,	Cabinet Maker,	135 King street
Wallace, George D.,	Foreman,	10 Johnson street
Walls, James F.,	Carpenter,	63 Morris street

NAME.	OCCUPATION.	RESIDENCE.
Walsh, John J.,	Brick Layer,	93 Bond street
Walsh, Thomas S.,	Boiler Maker,	33 Murray Hill avenue
Walters, Arthur E.,	Advertising Agent,	166 State street
Walton, Charles F.,	Painter,	145 Allen street
Ward, Albert P.,	Adjuster,	448 Franklin street
Ward, Erwin G.,	Agent,	617 Armory street
Ward, Robert A.,	Draughtsman,	175 State street
Ware, Frederick C.,	Carpenter,	32 Clarendon street
Warner, Allen H.,	Treasurer,	419 Sumner avenue
Warner, Frank E.,	Filer,	44 Hebron street
Warner, Walter H.,	Engraver,	55 Spring street
Warren, Frederick W.,	Machinist,	50 Worcester avenue
Warren, Robert F.,	Bookkeeper,	72 Pearl street
Warriner, Edward V.,	Clerk,	143 Cedar street
Warriner, Frank K.,	Com. Traveler,	98 Oak street
Watrous, George S.,	Manager,	6 Allendale street
Way, Michael,	Mason,	64 Bliss street
Webb, Eugene G.,	Insurance Agent,	19 Palmer avenue
Webb, Fred E.,	Liveryman,	33 Churchill street
Webster, Eugene A.,	Druggist,	32 Temple street
Webster, Harry G.,	Real Estate Dealer,	36 High street
Weeks, Alfred J.,	Machinist,	6 Allendale street
Weeks, Joseph W., Jr.,	Contractor,	47 Sheldon street
Welch, John J.,	Marketman,	247 Hancock street
Wesson, Joseph H.,	Manufacturer,	13 Federal street
West, Frank M.,	Box Manufacturer,	300 Forest Park avenue
West, Louis W.,	Filer,	31 Hawthorn street
Westropp, Arthur R.,	Clerk,	62 Essex street
Westropp, James F.,	Driver,	158 Union street
Westropp, William,	Salesman,	158 Union street
Wetherell, Charles B.,	Mechanic,	69 Union street
Wheat, William G.,	Merchant,	65 Dartmouth street
Wheeler, Charles A.,	Insurance Agent,	124 Spring street
Wheeler, Frank E.,	Broker,	43 Walnut street
Wheeler, Fred N.,	Druggist,	141 Wilbraham road
Wheeler, John C.,	Foreman,	708 Chestnut street
Whitcomb, Frank D.,	Merchant,	15 Mulberry street
Whitcomb, Henry J.,	Merchant,	322 Union street
Whitcomb, Henry L.,	Merchant,	15 Mulberry street
Whitcomb, Joseph S.,	Merchant,	323 Water street
White, Arthur A.,	Inspector,	402 Allen street
White, James W.,	Bookkeeper,	76 Pearl street
White, William H.,	Polisher,	25 College avenue
Whitlock, Arthur A.,	Compositor,	751 Belmont avenue

NAME.	OCCUPATION.	RESIDENCE.
White, John,	Coppersmith,	14 Murray Hill avenue
White, Joseph, Jr.,	Clerk,	12 Morris street
White, Leander W.,	Bank Teller,	182 Sumner avenue
White, Medosh,	Barber,	111 Union street
Whitehouse, Jeremiah H.,	Superintendent,	9 Lincoln street
Whitehouse, John J.,	Wire Drawer,	284 Dickinson street
Whitney, Arthur W.,	Shipping Clerk,	22 Pineywoods avenue
Whitney, William A.,	Adv. Manager,	21 Bradford street
Wilcoxson, Charles H.,	Express Clerk,	559 Liberty street
Wilder, George E.,	Com. Traveler,	19 Harvard street
Willard, Charles E.,	Printer,	59 Spring street
Willard, Walter H.,	Foreman,	261 North street
Willett, Charles,	Organ Maker,	50 Bancroft street
Willis, Charles C.,	Meat Cutter,	14 Adams street
Wilson, Chauncey F.,	Polisher,	15 Richelieu street
Wilson, Robert,	Tinsmith,	445 Belmont avenue
Winchester, Ezra H.,	Pattern Maker,	10 Dorchester street
Wing, Cara M.,	Agent,	24 Hawthorn street
Winter, Newrie D.,	Auctioneer,	79 Buckingham street
Witt, Ernest A.,	Assistant Assessor,	122 Andrew street
Wolff, Herman A.,	Mechanic,	33 Grace street
Wood, Harry M.,	Clerk,	159 Fort Pleasant avenue
Wood, Lorrin S.,	Builder,	15 Cedar street
Woodbury, J. Daniel,	Insurance Agent,	27 Girard avenue
Woods, Clarence S.,	Clerk,	131 Walnut street
Woods, Edward W.,	Mailing Clerk,	461 Central street
Woods, Harold H.,	Merchant,	117 High street
Woods, Raymond S.,	Clerk,	117 High street
Woodward, Alfred,	Com. Traveler,	184 Marion street
Woodward, Elbert A.,	Business Manager,	1047 State street
Workheiser, Charles,	Manufacturer,	16 Howard street
Wright, Charles A. L.,	Civil Engineer,	28 McKnight street
Wright, Charles H.,	Traveling Salesman,	41 Oak street
Wright, George C.,	Draughtsman,	149 Cedar street
Wright, Herbert W.,	Contractor,	77 Alexander street
Wright, Royal J.,	Treasurer,	7 Cornell street
Wyckoff, Richard T.,	Merchant,	38 Lafayette street
Young, E. Woodbury,	Insurance Agent,	50 Ringgold street
Young, Ernest F.,	Civil Engineer,	53 Jefferson avenue
Young, Eugene,	Engraver,	41 Broad street
Young, Frederick R.,	Bookkeeper,	42 Ringgold street
Young, Oscar,	Die Sinker,	72 Acushnet avenue
Young, William A.,	Assistant,	178 Maple street

CITY PROPERTY.

REPORT OF THE

COMMITTEE ON CITY PROPERTY.

SPRINGFIELD, MASS., December 31, 1906.

To the City Council of the City of Springfield.

GENTLEMEN:—The Committee on City Property respectfully submits the following report:—

The year's work of the Committee on City Property which has just closed has been marked with considerable new work in school buildings, and additions to old.

NEW BUILDINGS AND LAND.

The bringing to completion of the Technical High School is the most noticeable of the new work, which, with its land, buildings, and equipments, cost nearly $355,000, and places Springfield in a position to be foremost in the kind of work to be done in this school.

Howard Street School building was brought to completion early in the year, and is meeting well the requirements of that school.

An addition has been built to Barrows School, comprising new sanitaries for the same, at a cost of about $6,000. This improvement has been a much needed want for some time.

Land for school purposes has been purchased, as follows:—

A lot on School street, adjoining the present school, for an addition, at a cost of $9,000;

A lot on Chestnut street, adjoining the Chestnut Street School, for addition and playground, at a cost of $15,000;

A lot on North street for a new school, at a cost of $11,400;

A lot on Sumner avenue for primary school, at a cost of $11,500;

A lot on Central street for a playground, at a cost of $7,500.

Plans have been made, and the City Council have appropriated $72,000 for an addition to Armory Street School. These plans include a new boiler- house, boilers, and coal pocket large enough to take care of the entire plant. The contract for the building has been let to D. W. Mellen; the heating and ventilating to George H. McClean; the plumbing to the George Smith Company. The work is well under way.

Plans for Chestnut Street School addition have been made by E. C. and G. C. Gardner, and an appropriation of $75,600 voted by the City Council for this purpose.

REPAIRS AND ALTERATIONS.

Some of the larger repairs are as follows:—

Installing of ventilating system in class rooms at East Union Street School, at a cost of $1,246.63;

Installing of new sanitaries in building, at a cost of $1,036.00;

Electric light fixtures, including wiring, at Barrows School and Hooker School;

Fire signal installation in twenty-three of the school buildings, at a cost of over $471.00;

Over $1,500.00 worth of pupils' furniture, and $700.00 worth of teachers' furniture have been provided.

Other items will be found in the Schoolhouse Agent's report.

An inventory of city property on hand December 10, 1906, follows:—

BOARD OF HEALTH.

Hospital for Contagious Diseases, and equipment, Boston road,	$12,500 00	
Dumping grounds and buildings at South Main street,	7,900 00	
Dumping grounds and buildings at West street,	8,200 00	
Stable on dumping grounds at West street,	375 00	
Office supplies,	200 00	
Equipment of laboratory for milk inspection,	300 00	
Furniture for milk inspector,	52 75	
		$29,527 75

COLLECTION OF ASHES.

9 horses,	$1,400 00	
1 two-horse cart,	125 00	
6 one-horse carts,	770 00	
11 sleds,	375 00	
1 set double harnesses,	20 00	
8 single harnesses,	160 00	
11 blankets,	15 50	
Shovels, drag hooks, and carriers,	28 00	
7 wagon covers,	10 50	
1 single buggy,	100 00	
2 carriage robes,	7 00	
1 sleigh,	25 00	
		$3,036 00

ENGINEERING DEPARTMENT.

Office furniture,		$550 00
Books,	$200 00	
6 transit instruments,	1,000 00	
2 leveling instruments,	200 00	
Leveling rods and sight poles,	120 00	
Draughting instruments and general office supplies,	425 00	
Self-recording rain gauge,	100 00	
Amounts carried forward,	$2,045 00	$550 00

Amounts brought forward,	$2,045 00	$550 00
10 steel tapes,	50 00	
Cement testing equipment,	75 00	
Typewriter,	75 00	
Photographic apparatus,	400 00	
Card indexes and cabinet,	57 00	
Blue printing apparatus,	100 00	
		2,802 00
		$3,352 00

FIRE DEPARTMENT.	Land.	Buildings.	Equipment.	Total.
Armory street,	$1,100 00	$16,000 00	$6,719 00	$23,819 00
Bond street,	2,000 00	5,000 00	7,743 00	14,743 00
Chestnut street,	8,000 00	12,500 00	7.239 00	27.739 00
Hooker street,	2,500 00	20,400 00	9,921 00	32,821 00
Indian Orchard,	580 00	15,838 00	3,451 00	19,869 00
Jenksville, I. O.,		25 00	413 00	438 00
Mill street,	2,000 00	16,500 00	11,495 00	29,995 00
Oakland street,	700 00	10,000 00	3,190 00	13,890 00
Pine street,	1,750 00	6,000 00	3.851 00	11,601 00
Plainfield street,	800 00	10,500 00	3,125 00	14,425 00
Pynchon street,	20,000 00	15,000 00	26,593 00	61,593 00
South Main street,	300 00	2,000 00	1,600 00	3,900 00
Walnut street,	6,500 00	17,500 00	11,023 00	35,023 00
Winchester Park,	3,000 00	14,550 00	13.804 00	31,354 00
Fire alarm service,			56,000 00	56,000 00
	$49,230 00	$161,813 00	$166,167 00	$377,210 00

FORESTRY DEPARTMENT.

Forestry tools,	$1,038 47	
Machinery and tools for insect control,	808 73	
Insecticides,	75 00	
Buildings, Mill River lane,	235 08	
Hay and grain,	60 00	
Barn fixtures,	56 25	
Office fixtures,	126 36	
One horse,	225 00	
Street signs, fixtures and tools,	998 00	
Tree guards,	5 00	
Trees at Magnolia terrace,	200 00	
		$3,827 89

MISCELLANEOUS.

Land, Court street, site of old City Hall,..	$54,000 00	
Militia armory on Howard street, paid on sinking fund, ...	34,469 88	
Naval battalion, ...	100 00	
Bath houses, North End and Watershops,..	200 00	
Burial lot, Peabody cemetery,............	50 00	
Precinct railings and ballot counters,......	1,101 95	
Ballot boxes, ...	1,050 00	
Type, cases, etc., in possession of city printer, ...	1,250 00	
		$92,221 83

MUNICIPAL BUILDING.

Land, Building, } Old Pynchon Street School.		
Equipping building for city offices,........		$3,883 00
Furniture:—		
Assessors, ...	$2,150 45	
Auditor, ...	397 93	
Aldermen and Common Council rooms,	902 99	
Board of Health,....................	297 40	
City Clerk, ...	961 77	
City Treasurer, ...	1,042 78	
City Property Committee,............	47 50	
Inspector of Buildings,..............	56 00	
Mayor, ...	476 70	
Messenger, ...	165 15	
Overseers of the Poor,...............	845 00	
Sealer of Weights and Measures, including equipment (office in Water Department building), ...	379 50	
Street Lighting, ...	92 05	
Tax Collector, ...	1,080 81	
		8,896 03
Fire Commission, furniture in Pynchon engine house, ...	$200 00	
License Commission, furniture in room 34, Court Square Theater building,.......	250 00	
		450 00
		$13,229 03

PAUPER DEPARTMENT.

City farm, almshouse and old infirmary,		$61,200 00	
Almshouse, property,		15,000 00	
Smallpox hospital and land,		3,000 00	
Infirmary building, occupied by Board of Health,		9,500 00	
Almshouse:—			
Furniture, fixtures and farm tools,	$7,542 25		
Provisions and supplies,	5,989 51		
Horses, cows and other live stock,	1,941 00		
		15,472 76	
Hospital,		36,470 00	
Wayfarers' Lodge,		500 00	
Fixtures,	$912 50		
Supplies,	87 69		
Wood,	712 37		
		1,712 56	
			$142,855 32

POLICE COURT ROOM.

Vault, furniture, fixtures, etc.,		$800 00

POLICE DEPARTMENT.

Court street property,	$20,000 00	
Court street, department building,	55,500 00	
Indian Orchard property and buildings,	5,000 00	
Police signal system,	8,300 00	
		$88,800 00
Furniture, equipments, fuel, etc.:—		
Marshal's office,	$525 45	
Assistant Marshal's office,	184 00	
Captain's office,	97 00	
Inspectors' offices,	129 90	
Matron's office,	91 50	
Waiting room,	30 00	
Sergeant's room,	78 50	
Guard room,	286 25	
Men's lockup,	7 00	
Amounts carried forward,	$1,429 60	$88,800 00

Amounts brought forward,	**$1,429 60**	**$88,800 00**
Women's lockup,	4 75	
Detention rooms,	34 50	
Patrolmen's room,	1,378 00	
Morgue,	167 00	
Bicycle room,	125 00	
Property room,	117 00	
Corridor,	74 20	
Janitor's supplies,	130 30	
Basement,	874 35	
Stable,	3,417 85	
Emergency tools,	55 28	
Dormitory,	177 50	
Stationery,	223 15	
Equipment,	1,875 05	
Towels, bed linen, and curtains,	75 75	
Indian Orchard station,	199 50	
		10,358 78
		$99,158 78

SCAVENGER DEPARTMENT.

Land and buildings, Boston road,		$3,500 00
Dwelling house, South End dumping grounds,		900 00
14 horses,	$2,050 00	
11 offal wagons, double,	1,100 00	
2 offal wagons, single,	50 00	
2 express wagons,	40 00	
10 sets double harnesses,	120 00	
3 single harnesses,	36 00	
10 sleds and boxes, double,	421 00	
½ ton straw,	9 00	
200 bushels oats,	90 00	
3 tons hay,	60 00	
Corn, meal and bran,	6 00	
Grain box,	6 00	
Oat cleaner,	12 00	
Feed box and hay cutter,	5 00	
Blankets, covers, and stable tools,	175 00	
Iron pails,	30 00	
		4,210 00
		$8,610 00

SCHOOL DEPARTMENT.	Brick or Wood.	Stories.	Land.	Buildings.	Furniture.	TOTAL.
Alden Street	B	2	$2,500 00	$14,200 00	$306 00	$17,006 00
Armory Street	B	2	3,000 00	60,053 34	2,100 00	65,153 34
Barrows	B	3	10,000 00	45,754 04	789 13	56,543 17
Belmont Avenue	W	2	2,344 00	5,400 00	200 00	7,944 00
Boston Road	W	1	800 00	3,600 00	270 00	4,670 00
Brightwood	B	2	3,000 00	34,800 00	1,430 00	39,230 00
Buckingham	B	2	8,062 00	48,000 00	2,351 00	58,433 00
Carew Street	B	2	8,500 00	45,000 00	946 00	54,446 00
*Carlisle	B	2	800 00	1,000 00		1,800 00
Central Street	B	3	11,500 00	63,806 80	1,708 15	77,014 95
Charles Street	B	2	6,000 00	14,000 00	248 00	20,248 00
Chestnut Street	B	3	34,000 00	113,512 38	4,948 54	152,460 92
*Dry Bridge	W	1	300 00	1,200 00		1,500 00
Eastern Avenue	B	2	3,200 00	29,270 00	1,074 00	33,544 00
East Union Street	B	2	2,000 00	25,600 00	1,235 00	28,835 00
*Emery Street	B	2	5,000 00	10,000 00		15,000 00
Five Mile Pond	B	2	100 00	2,000 00	45 00	2,145 00
Forest Park	B	3	8,300 00	82,000 00	2,400 00	92,700 00
Glenwood	B	2	1,500 00	16,249 85	747 31	18,497 16
High (Central)	B	3	98,800 00	335,000 00	15,000 00	448,800 00
High (Technical)	B	3	54,000 00	276,404 38	13,000 00	343,404 38
Homer Street	B	2	7,000 00	36,000 00	1,737 00	44,737 00
Hooker	B	3	33,000 00	60,000 00	2,315 00	95,315 00
Howard Street	B	3	21,500 00	55,806 71	2,160 00	79,466 71
Indian Orchard Grammar	B	3	1,500 00	62,715 00	1,423 00	65,638 00
Indian Orchard Primary	W	2	1,800 00	12,000 00	720 00	14,520 00
Jefferson Avenue	B	2	5,000 00	40,000 00	1,000 00	46,000 00
Pynchon Street	B	2	16,600 00	31,000 00		47,600 00
School Street	B	2	19,000 00	18,000 00	600 00	37,600 00
Sixteen Acres	B	2	100 00	2,000 00	42 00	2,142 00
South Main Street	B	2	13,800 00	43,000 00	2,400 00	59,200 00
State Street	B	3	44,000 00	80,000 00	3,025 00	127,025 00
Strickland	B	2	5,000 00	20,000 00	613 00	25,613 00
Tapley	B	2	10,000 00	69,019 63	2,469 91	81,489 54
Wachogue	W	1	100 00	800 00	35 00	935 00
White Street	B	2	4,500 00	49,500 00	1,700 00	55,700 00
William Street	B	2	16,450 00	57,300 00	2,200 00	75,950 00
Worthington Street	B	3	16,600 00	50,000 00	848 00	67,448 00
Office Building	W	2	8,000 00	3,000 00	1,200 00	12,200 00
York Street			2,000 00			2,000 00
North Street			11,400 00			11,400 00
Sumner Avenue			11,500 00			11,500 00
	....	....	$512,576 00	$1,916,992 13	$73,286 04	$2,502,854 17

School supplies, books, apparatus, etc	$92,099 07	
Kindergarten equipment and supplies	2,809 77	
Technical High school equipment and supplies	23,227 66	
Cooking school equipment and supplies	2,346 75	
Tools and furniture in charge of Schoolhouse Agent	488 78	
Supplies in charge of Schoolhouse Agent	298 74	
Fuel on hand	5,300 00	
		126,570 77
		$2,629,424 94

---

*Unused.

STREET LIGHTING DEPARTMENT.

PROPERTY IN USE.

832 mast arms, at $15.00,	$12,480 00	
920 lamp poles, at $4.00,	3,680 00	
88 iron poles and tops, at $29.00,	2,552 00	
88 goosenecks and hoods, at $15.50,	1,364 00	
Meters,	751 00	
Miscellaneous tools,	95 00	
1 horse, 4 wagons, 2 sleighs, pole truck, harnesses, blankets, robes, etc.,	827 00	
Storehouse sheds,	570 00	
Model F Surrey automobile and supplies,	1,250 00	
		$23,569 00

STOCK ON HAND, NOT IN USE.

7 single goosenecks, at $15.50,	$108 50	
1 double gooseneck,	27 00	
Derrick,	157 00	
Pitch kettle and pitch,	150 00	
Paints and oils,	6 00	
Mast arms, cables, cross arms, and repair parts,	513 33	
Poles, tops, steps, sockets, pulleys and rope,	2,544 97	
Screws, rubber gloves, and ladders,	16 06	
4,000 charts for recording meters,	19 50	
Coal, hay and oats,	28 88	
		3,571 24
		$27,140 24

STREET AND SEWER DEPARTMENT.

City yard, Summer street,	$23,000 00
City yard, Summer street, buildings,	3,500 00
City yard, Logan street,	7,000 00
Trap rock quarry, Westfield,	225 00
Engine, engine house, trap rock crusher and tools,	1,500 00
Gravel bank, Five Mile pond,	100 00
Gravel bank, Island pond,	380 00
Gravel bank, Boston road,	80 00
Amount carried forward,	**$35,785 00**

Amount brought forward,		**$35,785 00**	
6 steam rollers,		10,400 00	
Steam roller house,		1,200 00	
Tools and road materials,		16,344 11	
Sewers and drains,		1,349,161 25	
14 horses, wagons, sleighs, harnesses, etc.,		4,448 75	
34 street watering carts,		4,815 00	
Automobile,		500 00	
Office furniture,		317 00	
			$1,422,971 11

WATER DEPARTMENT.

Original Van Horn reservoirs and mains (estimated present value),		$75,000 00
Gate-keeper's house,		800 00
Fire alarm at same,		97 70
Land purchased of C. J. Stebbins,		693 00
Land purchased of L. A. Rice,		726 00
Land purchased of James Kirkham,		3,050 00
Mains, etc., since original purchase of Springfield Aqueduct Co.'s property in 1872,		727,664 41
Pumping plant at Chapin pond (emergency use only) (cost),		6,381 59
Pumping plant at Five Mile pond (emergency use only) (cost),		15,512 53
Pumping plant at Loon pond (emergency use only) (cost),		3,786 78
Ludlow main, No. 2,		320,986 83
Ludlow and Belchertown property, cost to date,		947,120 26
Ludlow intermittent filter plant, cost to date,		50,324 84
Real estate at Five Mile pond (cost),		2,611 72
Office property, Bridge street:—		
Land,	$24,700 00	
Brick buildings,	12,000 00	
Frame building,	4,500 00	
		41,200 00
Amount carried forward,		**$2,195,955 66**

Amount brought forward,	$2,195,955 66	
Land on Wight avenue,..................	6,121 00	
Stable on Wight avenue (cost to date),....	6,973 51	
Team, tools, stock and fixtures,...........	22,199 41	
		$2,231,249 58

WATER STREET EXTENSION.

Land and buildings,.....................	$34,545 00

DEPARTMENT OF PUBLIC PARKS.

Name.	Location.	Acre.	Valuation.
Armory Street Triangle,	Armory street,	.02	
Belmont Triangle,	Belmont avenue,	.03	
Benton Lawn,	State street,	3.53	
Calhoun Square,	Chestnut street	2.43	$16,725 00
Carew Triangle,	North Main street,	.08	
City Hall Square,	Pynchon street,	.16	17,000 00
Clarendon Fountain,	Clarendon street,	.10	300 00
Cottage Hill Grove,	Indian Orchard,	3.34	
Court Square,	Main street,	.93	225,000 00
Court Square Extension,	Court street,	3.87	222,383 00
Concord Terrace,	Concord terrace,	.15	500 00
Crescent Terrace,	Crescent terrace,	.48	
Dartmouth Fountain,	Dartmouth street,	.15	500 00
Dartmouth Terrace,	Dartmouth terrace,	.39	5,000 00
Dorchester Rest,	Dorchester street,	.11	200 00
Forest Park,	Sumner avenue,	474.48	167,500 00
Florentine Gardens,	Spruceland avenue,	.17	
Garfield Triangle,	Garfield street,	.13	
Gunn Square,	Westford avenue,	.80	
Heywood Springs,	Armory street,	6.64	
Kenwood Park,	Belmont avenue,	.39	
Kibbe Fountain,	Federal street,	.07	200 00
Lafayette Rest,	Lafayette street,	.10	200 00
Magnolia Terrace,	Magnolia terrace,	.29	1,000 00
Maplewood Terrace,	Maplewood terrace,	.76	
Amount carried forward,			$656,508 00

Name.	Location.	Acre.	Valuation.
Amount brought forward,			**$656,508 00**
Marengo Park,	Marengo park,	.46	
Massachusetts Terrace,	Massachusetts avenue,	.36	
McKnight Glen,	Ingersoll grove,	6.00	6,000 00
McKnight Triangle,	Bay street,	.62	2,000 00
Merrick Terrace,	State street,	.55	25,000 00
Mill Street Fountain,	Mill street,	.05	500 00
Mill River Rest,	Mill street,	.08	100 00
Public Lawn,	North Main street,	.53	5,000 00
Sargeant Rest,	North Main street,	.24	4,000 00
Smith Triangle,	Maple and Pine streets,	.09	200 00
Stearns Square,	Bridge street,	.46	25,000 00
Tapley Playground,	Sherman street,	1.07	8,000 00
The Levee,	Foot of Elm street,	.80	10,000 00
Thompson Triangle,	St. James avenue,	1.06	6,000 00
Watershops Triangle,	Walnut street,	.35	500 00
West Street Triangle,	West street,	.13	
Westford Circle,	Westford circle,	.32	
Winchester Triangle,	State street,	.62	2,800 00
			$751,608 00

Permanent improvements to December 10, 1906:—

Building, structures, etc., ...	$44,734 00	
Roads, ponds, etc., ...	143,514 95	
		188,248 95
		$939,856 95

RECAPITULATION.

Board of Health,	$29,527 75	
Collection of ashes,	3,036 00	
Engineering department,	3,352 00	
Fire department,	377,210 00	
Forestry department,	3,827 89	
Municipal building, furnishings, etc.,	13,229 03	
Pauper department,	142,855 32	
Police court room,	800 00	
Police department,	99,158 78	
Scavenger department,	8,610 00	
School department,	2,629,424 94	
Street lighting department,	27,140 24	
Street and sewer departments,	1,422,971 11	
Water department,	2,231,249 58	
Water street extension,	34,545 00	
Miscellaneous,	92,221 83	
		$7,119,159 47
Land, etc., in charge of Park Commissioners,		$939,856 95

Respectfully submitted,

W. A. FORD,
J. P. FALT,
A. F. H. PILLSBURY,
H. N. BOWMAN,
M. J. SCULLY,

Committee on City Property.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

CITY AUDITOR.

CITY AUDITOR'S REPORT.

SPRINGFIELD, MASS., December 20, 1906.

To His Honor, the Mayor, and City Council:—

The Auditor of Accounts respectfully submits the following report:—

During the fiscal year ending December 10, 1906, this department has audited all bills and pay rolls presented for payment, and made quarterly examinations of the accounts of the City Treasurer and the accounts of the Water Commissioners, and has also made semi-annual examinations, as further required by ordinance, of the accounts of the Tax Collector and City Clerk, all of which have been found correct and to agree with the records of this office.

This department has also examined the accounts of the Commissioners of the Sinking Funds and find they agree with the records of the office of the Treasurer.

Statements of the accounts referred to are herewith submitted.

WM. C. MARSH,

Auditor of Accounts.

CITY CLERK IN ACCOUNT WITH CITY OF SPRINGFIELD.

	Dr.	Cr.
December, 1905, for the month, ...	$200 70	
January, 1906, " " "	100 30	
February, " " " "	71 40	
March, " " " "	64 85	
April, " " " "	186 70	
May, " " " "	210 15	
June, " " " "	215 40	
July, " " " "	179 55	
August, " " " "	130 15	
September, " " " "	85 70	
October, " " " "	98 60	
November, " " " "	78 85	
June, " by payment to City Treasurer,		$834 10
November, " " " " " "		100 00
December, " " " " " "		688 25
	$1,622 35	$1,622 35

I hereby certify that the above statement is correct.

WM. C. MARSH,
Auditor of Accounts.

SPRINGFIELD, MASS., December 20, 1906.

COLLECTOR OF TAXES IN ACCOUNT WITH THE CITY OF SPRINGFIELD.

	Dr.	Cr.
1905.		
December 9 to 31,	$28 70	
1906.		
January,	47 20	
February,	126 68	
March,	737 69	
April,	285 02	
May,	288 47	
June,	203 60	
July,	96 98	
August,	80 98	
September,	59 46	
October,	89 60	
November,	27 70	
December, to 10th,	11 00	
By payments to City Treasurer,		
1906.		
January,		$45 00
February,		10 00
June,		1,611 56
December,		416 42
	$2,082 98	$2,082 98

I hereby certify that the above statement is correct.

WM. C. MARSH,
Auditor of Accounts.

SPRINGFIELD, MASS., December 20, 1906.

CITY TREASURER IN ACCOUNT WITH THE CITY OF SPRINGFIELD.

For receipts and payments during the fiscal year, as follows:—

1905-1906.		Receipts.	Payments.	Cash Balance.
Dec. 10, 1905	Cash balance on hand.....			$351,213 17
Jan. 15, 1906	Month ending.............	$55,736 80	$237,259 35	
Feb. 15........	" "	42,670 41	126,835 80	
Mar. 15.......	" "	240,204 49	129,672 14	
April 15.......	" "	71,835 28	167,229 13	
May 15.......	" "	208,491 69	122,912 24	
June 15.......	" "	112,676 20	184,912 70	
July 15.......	" "	266,456 99	259,782 43	
Aug. 15.......	" "	201,556 63	168,803 41	
Sept. 15.......	" "	52,957 24	169,019 27	
Oct. 15.......	" "	287,397 96	152,422 70	
Nov. 15.......	" "	1,261,486 49	1,042,829 27	
Dec. 10.......	" "	299,953 21	239,525 06	
		$3,101,423 39	$3,001,203 50	$451,433 06

I hereby certify that the above statement is correct.

WM. C. MARSH, *Auditor of Accounts.*

SPRINGFIELD, MASS., December 20, 1906.

COLLECTOR OF TAXES IN ACCOUNT WITH THE CITY OF SPRINGFIELD.

For Sundry Accounts "Committed" to him for Collection.

FOR ACCOUNT OF:	DEBIT.			CREDIT.			
	Balances December 10, 1905.	Committed During the Year.	Total.	Payments to City Treasurer.	Abatements and Corrections.	Total.	Unpaid Balances Dec. 10, 1906.
Ash Dept.	$117 50	$35 00	$152 50	$35 00	$117 50	$152 50	......
Board of Health	......	101 74	101 74	101 74	......	101 74	......
City clerk	......	1 38	1 38	1 38	......	1 38	......
City engineer	152 54	2,885 58	3,038 12	2,925 90	66 00	2,991 90	$46 22
Court Square extension	......	531 68	531 68	531 68	......	531 68	......
Evening Trades School	515 00	1,939 00	2,454 00	1,833 50	367 50	2,201 00	253 00
Fire Dept.	88 16	286 00	374 16	281 00	58 16	339 16	35 00
Forestry Dept.	412 31	420 77	833 08	683 58	130 00	813 58	19 50
Highways and bridges	17,598 18	13,440 76	31,038 94	13,912 01	15,987 82	29,899 83	1,139 11
H. & B. Macadam and gravel	15 01	......	15 01	1 18	13 83	15 01	......
Isolation Hospital	2,374 75	2,687 30	5,062 05	1,346 58	1,337 57	2,684 15	2,377 90
Lighting streets	25 00	284 02	309 02	276 77	......	276 77	32 25
Pauper Dept.	4,535 16	13,522 54	18,057 70	13,866 40	37 58	13,903 98	4,153 72
Public parks	3 50	280 19	283 69	232 69	3 50	236 19	47 50
Scavenger	60 00	443 00	503 00	503 00	......	503 00	......
Schools	1,308 00	4,666 50	5,974 50	5,151 50	214 50	5,366 00	608 50
Schoolhouse repairs	75 42	107 20	182 62	145 12	......	145 12	37 50
Schools, city property	......	151 84	151 84	151 84	......	151 84	......
Sewers and drains	419 10	705 71	1,124 81	985 85	59 01	1,044 86	79 95
Soldiers' Relief	......	255 73	255 73	255 73	......	255 73	......
Technical High School	60 00	1,909 55	1,969 55	1,474 55	15 00	1,489 55	480 00
" " Building	......	18 55	18 55	13 50	......	13 50	5 05
Walks and curbing	5,633 59	12,002 64	17,636 23	11,025 55	507 27	11,532 82	6,103 41
Watering street tax, 1904	214 46	......	214 46	171 87	42 59	214 46	......
" " " 1905	4,166 04	......	4,166 04	3,903 61	......	3,903 61	262 43
" " " 1906	......	24,305 70	24,305 70	19,698 03	......	19,698 03	4,607 67
Water department	5,600 92	289,965 39	295,566 31	286,790 54	4,719 45	291.509 99	4,056 32
Taxes, 1904	9,712 23	.. ...	9,712 23	9,182 49	529 74	9,712 23	......
" 1905	233,425 29	2,819 74	236,245 03	213,267 05	12,120 49	225,387 54	10,857 49
" 1906	......	1,380,296 31	1,380,296 31	1,166,368 59	......	1,166,368 59	213,927 72
Watering streets, 1905	22 50	2,223 10	2,245 60	2,245 60	......	2,245 60	......
Contingencies	......	834 76	834 76	834 76	......	834 76	......
	$286,534 66	$1,757,121 68	$2,043,656 34	$1,758,198 59	$36,327 51	$1,794,526 10	$249,130 24

I hereby certify that the above statement is correct.

WM. C. MARSH, *Auditor of Accounts.*

SPRINGFIELD, MASS., December 20, 1906.

COMMISSIONERS OF THE SINKING FUNDS IN ACCOUNT WITH THE CITY OF SPRINGFIELD.

For Account of Sinking Funds During the Fiscal Year Ending December 10, 1906.

SINKING FUNDS FOR:	Balances November 20, 1905.	Appropriations etc., During the Year.	Net Earnings Collected During Year.	To be Accounted For.	Payments.	Balances November 20, 1906.
High school, new building	$133,664 94	$14,000 00	$4,239 03	$151,903 97	....	$151,903 97
Improvement loan	29,041 74	3,700 00	1,287 19	34,028 98	....	34,028 98
Public Park loan, 1903	15,388 31	5,000 00	418 84	20,807 15	....	20,807 15
Rowland avenue sewer	31,626 67	1,500 00	1,210 43	34,337 10	....	34,337 10
Sewer fund	68,699 22	....	2,425 10	71,124 32	$1,124 32 70,000 00	....
School loan, 1900	29,479 75	5,700 00	1,252 75	36,432 50	....	36,432 50
School loan, 1901	20,696 95	5,000 00	874 99	26,571 94	....	26,571 94
School loan, 1902	6,560 21	2,200 00	298 49	9,058 70	....	9,058 70
School loan, 1903	3,327 06	1,700 00	143 21	5,170 27	....	5,170 27
School loan, 1905	12,500 00	14,000 00	138 06	26,638 06	†168 00	26,470 06
Schoolhouse, Ward 6	16,378 31	1,400 00	599 63	18,377 94	....	18,377 94
Sewer loan, 1900	16,937 58	3,300 00	*1,124 32 549 24	21,911 14	....	21,911 14
Water works	124 00	91,989 24	3,001 13	95,114 37	†4,735 24 40,000 00	50,379 13
	$384,424 74	$149,489 24	$17,562 41	$551,476 39	$116,027 56	$435,448 83

*Balance of sewer fund transferred.

†Premium paid and charged off.

The balance, November 16, 1906:—

City of Springfield bonds	$212,600 00
Bonds and notes, county, municipal and town	131,500 00
Railroad bonds	65,000 00
Street Railway bonds	12,500 00
Real estate mortgages	4,500 00
Certificates of deposit	217 58
Cash in banks at interest	9,131 25
	$435,448 83

All of which is in the hands of the Treasurer of the Sinking Fund.

WM. C. MARSH, *Auditor of Accounts.*

SPRINGFIELD, MASS., December 20, 1906.

WATER WORKS IN ACCOUNT WITH THE CITY OF SPRINGFIELD.

For receipts and payments by City Treasurer, as follows:—

1906.		Dr. Amount Paid.	Cr. Collections.
Jan. 15	Month ending	$10,279 15	$9,725 00
Feb. 15	" "	11,358 59	20,400 00
March 15	" "	12,247 89	7,775 00
April 15	" "	7,433 85	3,090 00
May 15	" "	15,115 15	85,256 00
June 15	" "	18,221 21	12,502 09
July 15	" "	10,935 42	2,650 00
Aug. 15	" "	24,766 10	29,960 00
Sept. 15	" "	12,110 37	5,250 00
Oct. 15	" "	13,020 30	17,335 00
Nov. 15	" "	19,333 01	72,625 00
Dec. 10	" "	9,218 54	20,222 45
		$164,039 58	$286,790 54
	Interest	21,875 00	....
	Sinking fund	100,875 96	....
		$286,790 54	$286,790 54

December 10, 1906, balance due Water Department, $100,875.96.

I hereby certify that the above statement is correct.

WM. C. MARSH, *Auditor of Accounts.*

SPRINGFIELD, MASS., December 20, 1906.

BOARD OF ALDERMEN, December 27, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 27, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 29, 1906.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., December 29, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

SINKING FUND.

REPORT OF THE

COMMISSIONERS OF THE SINKING FUNDS.

SPRINGFIELD, MASS., November 30, 1906.

To His Honor, the Mayor, and City Council.

GENTLEMEN:—The Commissioners of the Sinking Funds of the City of Springfield have the honor to report the condition of the twelve sinking funds, established to meet indebtedness of the city, and the income accruing to the same, for the year ending November 16, 1906, as follows:—

WATER WORKS.

$555,000 3½% and 4% bonds, sundry maturities.

RECEIPTS.

Amount on hand at last report, . .		$124 00	
Surplus balance from Water Department for 1905, received December 18, 1905,		91,989 24	
Interest on investments, ...		2,904 92	
Addition of difference between price paid and par value of bonds bought during the year, ...		135 00	
		$95,153 16	
Paid City Treasurer to meet 3½% water bonds, due April 1, 1906, . .	$40,000 00		
Premiums paid on bonds,—charged off, . . .	4,735 24		
Accrued interest paid,—charged off, . . .	38 79		
		44,774 03	
			$50,379 13

INVESTMENTS.

Municipal bonds,		$25,000 00	
Railroad bonds,		23,000 00	
Cash in bank at interest,		2,379 13	
			$50,379 13

SEWER FUNDS.

(Closed, July 1, 1906.)

Loan $70,000 4% bonds, July 1, 1891. 15 years.

RECEIPTS.

Amount on hand at last report,		$68,699 22	
Interest on investments,		2,532 93	
		$71,232 15	
Premium on bonds,—charged off,	$14 50		
Accrued interest paid,—charged off,	93 33		
		107 83	
			$71,124 32

PAYMENTS.

Paid City Treasurer July 1, 1906, to meet registered bonds issued for this loan,	$70,000 00	
Balance transferred to "Sewer Loan 1900,"	1,124 32	
		$71,124 32

ROWLAND AVENUE SEWER.

Loan $35,000 3½% bonds, May 1, 1892. 15 years.

RECEIPTS.

Amount on hand at last report,	$31,626 67
Appropriation of City Council, received November 12, 1906,	1,500 00
Interest on investments,	1,253 15
Addition of difference between price paid and par value of bond,	2 50
	$34,382 32

Amount brought forward,		$34,382 32	
Premium paid on bonds,—charged off, . . .	$9 60		
Accrued interest paid,—charged off, . . .	35 62		
		45 22	
			$34,337 10

INVESTMENTS.

City of Springfield 3½% bonds, ...	$11,000 00	
Municipal bonds, ...	10,850 00	
Railroad bonds, ...	10,000 00	
Certificate of deposit, ...	217 58	
Cash in bank at interest, ...	2,269 52	
		$34,337 10

SCHOOLHOUSE, WARD SIX.

Loan $35,000 4% bonds, October 1, 1895. 20 years.

RECEIPTS.

Amount on hand at last report, ...		$16,378 31	
Appropriation of City Council, received November 12, 1906, ...		1,400 00	
Interest on investments, ...		688 04	
		$18,466 35	
Premium paid on bonds,—charged off, . . .	$60 00		
Accrued interest paid,—charged off, . . .	28 41		
		88 41	
			$18,377 94

INVESTMENTS.

City of Springfield bonds, ...	$3,700 00	
Real estate mortgage, ...	4,500 00	
Bonds, municipal and town, ...	3,950 00	
Street Railway bonds, ...	4,000 00	
Railroad bonds, ...	2,000 00	
Cash in banks at interest, ...	227 94	
		$18,377 94

HIGH SCHOOL LOAN.

Loan $370,000 4% bonds, January 1, 1897. 20 years.

RECEIPTS.

Amount on hand at last report,		$133,664 94	
Appropriation of City Council, received November 12, 1906,		14,000 00	
Interest on investments,		5,011 71	
		$152,676 65	
Premium paid on bonds,—charged off,	$424 40		
Accrued interest paid,—charged off,	348 28		
		772 68	
			$151,903 97

INVESTMENTS.

City of Springfield bonds,	$80,500 00	
Bonds, municipal, town, and county,	68,950 00	
Railroad bonds,	2,000 00	
Cash in bank at interest,	453 97	
		$151,903 97

IMPROVEMENT LOAN.

Loan $35,000 3½% bonds, August 1, 1897. 10 years.

RECEIPTS.

Amount on hand at last report,	$29,041 74	
Appropriation of City Council, received November 12, 1906,	3,700 00	
Interest on investments,	1,293 23	
	$34,034 97	
Accrued interest paid,—charged off,	6 04	
		$34,028 93

INVESTMENTS.

City of Springfield bonds,	$13,500 00	
Bonds, municipal and town,	12,500 00	
Railroad bonds,	7,000 00	
Cash in bank at interest,	1,028 93	
		$34,028 93

SCHOOL LOAN, 1900.

Loan $145,000 3% and 3½% bonds, December 1, 1899, and June 1, 1900. 20 years.

RECEIPTS.

Amount on hand at last report,	$29,479 75	
Appropriation of City Council, received November 12, 1906,	5,700 00	
Interest on investments,	1,078 65	
Addition of difference between price paid and par value of bonds,	276 25	
	$36,534 65	
Accrued interest paid,—charged off,	102 15	
		$36,432 50

INVESTMENTS.

City of Springfield bonds,	$19,500 00	
Municipal bonds,	5,250 00	
Railroad bonds,	11,000 00	
Street Railway bonds,	500 00	
Cash in bank at interest,	182 50	
		$36,432 50

SEWER LOAN, 1900.

Loan $142,000 3% bonds, June 1, 1900. 30 years.

RECEIPTS.

Amount on hand at last report,	$16,937 58
Appropriation of City Council, received November 12, 1906,	3,300 00
Amount carried forward,	$20,237 58

Amount brought forward,		$20,237 58	
Surplus balance of Sewer Fund, closed July 1, 1905, transferred,		1,124 32	
Interest on investments,		650 15	
		$22,012 05	
Premium paid on bonds,—charged off,	$56 00		
Accrued interest paid,—charged off,	44 91		
		100 91	
			$21,911 14

INVESTMENTS.

City of Springfield bonds,	$15,500 00	
Railroad bonds,	5,000 00	
Street Railway bonds,	1,300 00	
Cash in bank at interest,	111 14	
		$21,911 14

SCHOOL LOAN, 1901.

Loan $125,000 3½% bonds, September 1, 1901. 20 years.

RECEIPTS.

Amount on hand at last report,	$20,696 95	
Appropriation of City Council, received November 12, 1906,	5,000 00	
Interest on investments,	741 80	
Addition of difference between price paid and par value of bonds,	212 50	
	$26,651 25	
Accrued interest paid,—charged off,	79 31	
		$26,571 94

INVESTMENTS.

City of Springfield bonds,	$16,200 00	
Bonds, municipal and town,	5,000 00	
Railroad bonds,	5,000 00	
Cash in bank at interest,	371 94	
		$26,571 94

SCHOOL LOAN, 1902.

Loan $55,000 3½% bonds, October 1, 1902. 20 years.

RECEIPTS.

Amount on hand at last report, ...	$6,560 21	
Appropriation of City Council, received November 12, 1906, ...	2,200 00	
Interest on investments, ...	230 69	
Addition of difference between price paid and par value of bonds, . . .	106 25	
	$9,097 15	
Accrued interest paid,—charged off, .	38 45	
		$9,058 70

INVESTMENTS.

City of Springfield bonds, ...	$6,500 00	
Railroad bonds, ...	2,000 00	
Cash in bank at interest, ...	558 70	
		$9,058 70

PUBLIC PARK LOAN, 1903.

Court Square Extension.

Loan $125,000 3½% bonds, June 1, 1903. 20 years.

RECEIPTS.

Amount on hand at last report, ...		$15,388 31	
Appropriation of City Council, received November 12, 1906, ...		5,000 00	
Interest on investments, ...		555 27	
		$20,943 58	
Accrued interest paid,—charged off, ...	$62 93		
Premium paid on bonds,—charged off, . . .	73 50		
		136 43	
			$20,807 15

INVESTMENTS.

City of Springfield bonds, ...	$15,200 00	
Street Railway bonds, ...	4,700 00	
Cash in bank at interest, ...	907 15	
		$20,807 15

SCHOOL LOAN, 1903.

Loan $40,000 3½% bonds, September 1, 1903. 20 years.

RECEIPTS.

Amount on hand at last report, ...	$3,327 06	
Appropriation of City Council, received November 12, 1906, ...	1,700 00	
Interests on investments, ...	103 50	
Addition of difference between price paid and par value of bonds, ...	63 75	
	$5,194 31	
Accrued interest paid,—charged off, . .	24 04	
		$5,170 27

INVESTMENTS.

City of Springfield bonds, ...	$5,000 00	
Cash in bank at interest, ...	170 27	
		$5,170 27

SCHOOL LOAN, 1905.

Technical High School and White Street Grammar School.

Loan $396,000 3½% bonds, January 1, 1905. 20 years.

RECEIPTS.

Amount on hand at last report, ...	$12,500 00
Appropriation of City Council, received November 12, 1906, ...	14,000 00
Interest on investments, ...	434 61
	$26,934 61

Amount brought forward,		$26,934 61	
Premium paid on bonds,—charged off, . . .	$168 00		
Accrued interest paid,—charged off, . . .	296 55		
		464 55	
			$26,470 06

INVESTMENTS.

City of Springfield 3½% bonds, ...	$26,000 00	
Cash in bank at interest, ...	470 06	
		$26,470 06

RECAPITULATION.

Surplus balance from Water Department for 1905, received December 18, 1905,		$91,989 24	
Appropriations of City Council, received November 12, 1906, ...		57,500 00	
Interest on investments, ...		17,478 65	
Addition of difference between price paid and par value of bonds purchased during the year, ...		796 25	
Total revenue, ...		$167,764 14	
Amount on hand at last report, . . .		384,424 74	
		$552,188 88	
Paid City Treasurer to meet 3½% Water bonds, due April 1, 1906, . . .	$40,000 00		
Paid City Treasurer to meet 4% Reg'd Sewer bonds, due July 1, 1906, . .	70,000 00		
All premiums paid for bonds purchased during the year,—charged off, . .	5,541 24		
Accrued interest paid on all bonds purchased,—charged off, ...	1,198 81		
		116,740 05	
			$435,448 83

INVESTED AS FOLLOWS:

City of Springfield bonds,	$212,600 00	
Bonds and notes,—county, municipal, and town,	131,500 00	
Railroad bonds,	65,000 00	
Street Railway bonds,	12,500 00	
Real estate mortgage,	4,500 00	
Certificate of deposit,	217 58	
Cash in banks at interest,	9,131 25	
		$435,448 83

Respectfully submitted,

A. B. WALLACE,
A. W. DAMON,
Commissioners.

ELIPHALET T. TIFFT, *Treasurer.*

Board of Aldermen, December 7, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

Common Council, December 7, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, December 8, 1906.

E. A. NEWELL, *City Clerk.*

Mayor's Office, Springfield, Mass., December 8, 1906.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

CITY TREASURER'S REPORT.

DECEMBER 10, 1906.

With Certificate of City Auditor Attached.

CITY TREASURER'S REPORT.

City of Springfield,
City Treasurer's Office, December 20, 1906.

To His Honor, the Mayor, and City Council:—

I have the honor to submit the following report of the receipts and payments of the City of Springfield for the fiscal year ending December 10, 1906; also a detailed statement of the City's indebtedness.

RECEIPTS.

The amounts received from various sources and credited sundry accounts are as follows:—

Cash on hand December 10, 1905,		$351,213 17
Temporary loans,	$575,000 00	
From City Collector:—		
Taxes, 1904,	9,182 49	
Taxes, 1905,	201,134 79	
Taxes, 1906,	1,153,512 53	
Street watering taxes, 1904,	171 87	
Street watering taxes, 1905,	3,903 61	
Street watering taxes, 1906,	19,698 03	
Excise tax, Springfield Street Railway Co., 1905 and 1906,	24,988 32	
From State Treasurer:—		
Corporation tax, Springfield Street Railway Company,	25,081 13	
National bank tax,	6,088 46	
State aid,	12,401 50	
Military aid,	289 00	
Soldiers' and sailors' burials,	205 00	
Amounts carried forward,	$2,031,656 73	$351,213 17

Amounts brought forward,		$2,031,656 73	$351,213 17
Commissioners of the Sinking Funds:—			
Funds to meet water bonds Nos. 381 to 420 inclusive,	$40,000 00		
Funds to meet registered sewer bonds,	70,000 00		
		110,000 00	
Board of Health, sundry licenses, etc.,		338 99	
Contingencies:—			
State Treasurer, balance of corporation tax 1905,	$5,803 10		
State Treasurer, on account of corporation tax 1906,	113,603 42		
State Treasurer, armory rent,	1,800 00		
Liquor licenses,	102,660 52		
Sundry other licenses,	1,904 00		
Sale of West Union street schoolhouse,	3,600 00		
Sale of Plainfield street schoolhouse,	1,900 00		
Sundry other receipts and fees,	1,616 16		
		232,887 20	
City Clerk's department, fees, etc.,		1,633 73	
City Engineering department, services of engineers,		2,925 90	
City Hall fire expenses,		28 00	
City Library Association, County Treasurer, dog fund of 1905,		4,525 39	
City yard Summer street, sale of City yard Lyman street,		27,250 00	
Central street school additional land, rents,		210 00	
Chestnut street school addition, sale of buildings,		486 00	
Amounts carried forward,		$2,411,941 94	$351,213 17

Amounts brought forward,		$2,411,941 94	$351,213 17
Collector's department, fees,		2,082 98	
Collection of ashes, sales,		80 02	
Court Square extension, rents and sale of buildings,		6,649 68	
Evening Trade school, tuition,		1,833 50	
Fire department, sale of horses, junk, etc.,		463 51	
Fire department, additions to apparatus and houses, sale of shed,		20 00	
Forestry, services,		683 58	
Funded Debt:—			
"Fire Department Loan 1906," registered 4 per cent bonds,	$40,000 00		
"School Loan 1905," registered 3½ per cent bonds,	26,000 00		
"School Loan 1906," registered 4 per cent bonds,	207,000 00		
		273,000 00	
Premium on city bonds, premium on "School Loan 1906" bonds		10,306 53	
Highways and bridges, labor and material,		13,925 14	
Highways and bridges, macadam and gravel,		1 18	
Interest, taxes, bank balances, etc.,		15,419 90	
Isolation hospital, board and care of patients,		1,346 58	
Kindergarten,		25	
Lighting streets,		281 77	
Pauper department, support of poor, etc.,		14,135 50	
Police and watch, fines, fees, etc.,		6,384 82	
Public parks, rents and sales,		1,214 44	
Scavenger department, house offal, etc.,		2,698 80	
Schools, tuition, etc.,		5,655 10	
Schools, city property committee, high school hall rentals, etc.,		731 84	
Schoolhouse repairs, sale of junk, etc.,		346 09	
Amounts carried forward,		$2,769,203 15	$351,213 17

Amounts brought forward,	$2,769,203 15	$351,213 17
Schoolhouse Sumner avenue, rents,	147 47	
Sewers and drains, sewer entrance fees, labor and material,	11,587 04	
Soldiers' relief, aid rendered,	263 73	
South End bridge separation of grades, cost under second audit, state, railroad, and city's share,	14,574 58	
Technical high school, tuition, etc.,	1,638 86	
Technical high school building,	40 42	
Union street widening, sale of house and lot,	2,650 00	
Walks and curbing, assessments, etc.,	11,025 55	
Watering streets, watering street railway tracks, etc.,	2,245 60	
Water street extension, rents,	1,256 00	
Water works, rents, labor, material, etc.,	286,790 54	
Total receipts,		3,101,422 94
		$3,452,636 11

PAYMENTS.

The amounts disbursed and charged to sundry accounts are as follows:—

Funded debt,	$134,200 00
Temporary loans,	575,000 00
State Treasurer:—	
State tax, 1906,	86,590 00
State tax, 1906, for armory sinking fund and interest,	6,611 06
State tax, 1906, expense of special census,	820 78
National bank tax, 1906,	26,607 69
Abolition of grade crossing, South End bridge, loan fund and interest,	4,581 10
County Treasurer:—	
County tax, 1906,	89,968 08
Amount carried forward,	$924,378 71

Amount brought forward,	$924,378	71
State aid,	12,818	00
Military aid,	588	00
Soldiers' and sailors' burials,	490	00
Abatement of taxes,	95	27
Armory street school addition,	3,261	19
Assessors' department,	10,686	39
Auditing department,	2,200	00
Barrows school sanitaries,	5,754	04
Birnie avenue extension,	3,097	50
Board of Health,	9,667	28
Central street school, additional land,	7,509	77
Chestnut street school addition,	15,019	93
City Clerk's department,	6,601	59
City Engineering department,	13,351	76
City Hall fire expenses,	31	48
City Library Association,	40,525	39
City wires underground,	2,242	38
City yard, Summer street,	26,917	03
Collector's department,	7,780	59
Collection of ashes,	22,853	56
Contingencies,	38,222	10
Cooking school,	2,747	31
Court Square extension,	1,291	61
Election expenses,	6,355	64
Evening trade school,	3,564	72
Fire department,	128,411	91
Fire department, additions to apparatus and houses,	16,422	35
Forestry,	12,582	18
Highways and bridges,	204,238	84
Interest,	98,413	09
Isolation hospital,	6,381	22
Kindergarten,	15,662	87
Law department,	2,947	93
Land, West street,	16,000	00
Lighting streets,	80,265	57
Mayor's department,	4,095	53
Amount carried forward,	$1,753,472	73

Amount brought forward,	$1,753,472 73	
Medical inspection of schools,	751 74	
Mill River valley sewer,	2,154 22	
Municipal building expenses,	4,582 50	
Pauper department,	46,464 44	
Police and watch,	100,862 30	
Printing and stationery,	2,730 47	
Public parks,	37,044 21	
Public sanitaries,	97 03	
Scavenger department,	15,691 83	
Schools,	310,433 29	
Schoolhouse repairs,	20,671 47	
Schools, city property committee,	64,222 45	
Schoolhouse, Howard street,	21,909 88	
Schoolhouse, Sumner avenue,	11,531 79	
Schoolhouse, North street,	11,400 00	
School street school addition,	9,000 00	
Sewers and drains,	38,980 02	
Soldiers' relief,	3,757 01	
South End bridge, separation of grades,	8,029 59	
Sinking funds,	149,489 24	
Technical high school,	28,065 51	
Technical high school building,	127,861 47	
Treasury department,	7,042 95	
Union street widening,	6,490 73	
Walks and curbing,	25,094 20	
Water street extension,	296 11	
Watering streets,	29,036 29	
Water works,	164,039 58	
Total payments,		$3,001,203 05
Cash on hand December 10, 1906,		451,433 06
		$3,452,636 11

The following table shows the appropriations, receipts, transfers, payments, and balances for the current year. Of the total appropriations, $1,111,700 was raised by taxation. The balance, $198,300, was taken from the contingent account by order of the City Council, and is included in the transfers from that department.

DEPARTMENTS.	Appropriations.	Receipts.	Appropriations and Receipts.	Transfers by order of the City Council.	Appropriations and Receipts plus or minus Transfers.	Expenditures.	Surplus Balances.	Deficit Balances.
Abatement of Taxes	....	$43,626 14	$43,626 14	....	$43,626 14	$12,788 09	$30,838 05	
Assessors' Department	$10,900 00	....	10,900 00	....	10,900 00	10,686 39	213 61	
Auditing Department	2,200 00	....	2,200 00	....	2,200 00	2,200 00	....	
Board of Health	10,600 00	338 99	10,938 99	$1,075 00	9,863 99	9,667 28	196 71	
City Clerk's Department	5,200 00	1,633 73	6,833 73	....	6,833 73	6,601 59	232 14	
City Engineering Department	10,000 00	2,925 90	12,925 90	700 00	13,625 90	13,351 76	274 14	
City Library Association	36,000 00	4,525 39	40,525 39	....	40,525 39	40,525 39	....	
City Wires Underground	2,250 00	....	2,250 00	....	2,250 00	2,242 38	7 62	
Collection of Ashes	21,000 00	80 02	21,080 02	1,850 00	22,930 02	22,853 56	76 46	
Collector's Department	6,100 00	2,082 98	8,182 98	....	8,182 98	7,780 59	402 39	
Contingencies	....	242,200 24	242,200 24	207,292 70	34,907 54	38,516 10	....	$3,608 56
Election Expenses	7,500 00	....	7,500 00	....	7,500 00	6,355 64	1,144 36	
Fire Department	128,000 00	463 51	128,463 51	....	128,463 51	128,411 91	51 60	
Forestry	12,000 00	683 58	12,683 58	....	12,683 58	12,582 18	101 40	
Funded Debt	24,200 00	110,000 00	134,200 00	....	134,200 00	134,200 00	....	
Highways and Bridges	160,000 00	47,204 46	207,204 46	....	207,204 46	204,238 84	2,965 62	
Highways and Bridges, Macadam and Gravel								
Highways and Bridges, Paving								
Isolation Hospital	4,000 00	1,346 58	5,346 58	1,075 00	6,421 58	6,381 22	40 36	
Interest	63,000 00	15,419 90	78,419 90	21,875 00	100,294 90	98,413 09	1,881 81	
Law Department	3,600 00	....	3,600 00	....	3,600 00	2,947 93	652 07	
Lighting Streets	80,000 00	281 77	80,281 77	....	80,281 77	80,265 57	16 20	
Mayor's Department	4,300 00	....	4,300 00	....	4,300 00	4,095 53	204 47	
Municipal Building Expenses	4,000 00	....	4,000 00	600 00	4,600 00	4,582 50	17 50	
Pauper Department	34,000 00	14,135 50	48,135 50	....	48,135 50	46,464 44	1,671 06	
Police and Watch	93,000 00	6,384 82	99,384 82	1,600 00	100,984 82	100,862 30	122 52	
Printing and Stationery	2,600 00	....	2,600 00	150 00	2,750 00	2,730 47	19 53	
Public Parks	35,000 00	3,971 84	38,971 84	....	38,971 84	37,044 21	1,927 63	
Scavenger Department	13,000 00	2,698 80	15,698 80	....	15,698 80	15,691 83	6 97	
Schools	300,000 00	5,655 10	305,655 10	5,310 00	310,965 10	310,433 29	531 81	
Schools, Evening Trade	3,000 00	1,833 50	4,833 50	1,260 00	3,573 50	3,564 72	8 78	
Schools, City Property Committee	60,000 00	731 84	60,731 84	4,000 00	64,731 84	64,222 45	509 39	
Schools, Cooking	2,800 00	....	2,800 00	....	2,800 00	2,747 31	52 69	
Schools, Technical High	22,000 00	1,638 86	23,638 86	4,450 00	28,088 86	28,065 51	23 35	
Schools, Kindergarten	16,000 00	 25	16,000 25	....	16,000 25	15,662 87	337 38	
Schoolhouse Repairs	17,500 00	346 09	17,846 09	2 835 20	20,681 29	20,671 47	9 82	
Sewers and Drains	28,000 00	11,587 04	39,587 04	....	39,587 04	38,980 02	607 02	
Sinking Funds	57,500 00	....	57,500 00	....	57,500 00	57,500 00	....	
Soldiers' Relief	3,500 00	263 73	3,763 73	....	3,763 73	3,757 01	6 72	
Treasury Department	7,050 00	....	7,050 00	....	7,050 00	7,042 95	7 05	
Walks and Curbing	10,700 00	11,025 55	21,725 55	4,000 00	25,725 55	25,094 20	631 35	
Water Works		286,790 54	286,790 54	21,875 00	264,915 54	164,039 58	100,875 96	
Watering Streets	9,500 00	26,551 30	36,051 30	....	36,051 30	33,036 29	3,015 01	
	$1,310,000 00	$846,427 95	$2,156,427 95	$279,947 90	$1,973,370 45	$1,827,298 46	$149,680 55	$3,608 56

STATEMENT OF THE FUNDED DEBT AND SINKING FUNDS.

LOANS.	Date of Issue.	INTEREST.		PRINCIPAL.		Sinking Funds.
NAME AND DESCRIPTION.		Rate per Cent	Payable.	When Due.	Outstanding.	
Fire Dept. Bonds, 1901 Gold Reg.	1901	3½	Mch. and S.	Sept. 1, 1902 to Sept. 1, 1911. $4,000 an'ly	$20,000 00	
Fire Dept. Loan, 1906...............	1906	4	May and N.	Nov. 1, '07 to Nov. 1, 1916. $4,000 an'ly	40,000 00	
Improvement Bonds. Gold Reg.	1897	3½	F. and A.	August 1, 1907........................	35,000 00	$34,028 93
Miscellaneous Bonds. " "	1898	3½	J. and J.	July 1, 1899 to 1908. $4,000 annually.	8,000 00	
Public Parks. " "	1903	3½	Jne. and D.	June 1, 1923...........................	125,000 00	20,807 15
School B'nds, '03. Gold Cou. or Reg.	1903	3½	M. and S.	September 1, 1923....................	40,000 00	5,170 27
" " Gold Reg.....	1895	4	A. and O.	October 1, 1915........................	35,000 00	18,377 94
" " High " "	1897–8	4	J. and J.	January 1, 1917........................	370,000 00	151,903 97
" " " "	1897	4	J. and J.	July 1, 1898 to 1917. $4,500 annually.	49,500 00	
" " " "	1898	3½	J. and J.	July 1, 1899 to 1918. $4,200 annually.	50,400 00	
" " " "	1898	3½	J. and J.	July 1, 1899 to 1918. $4,500 annually.	54,000 00	
" " 1900 " "	1900	3½	Jne. and D.	December 1, 1919.....................	20,000 00	36,432 50
" " 1900 Gold Cou. or Reg.	1900	3	Jne. and D.	June 1, 1920...........................	125,000 00	
" " 1901 Gold Reg.....	1901	3½	Mch. and S.	September 1, 1921.....................	125,000 00	26,571 94
" " 1902 " "	1902	3½	A. and O.	October 1, 1922........................	55,000 00	9,058 70
" Technical High	1905–6	3½	J. and J.	January 1, 1925........................	342,000 00	26,470 06
" White Street	1905	3½	J. and J.	January 1, 1925..................... ...	54,000 00	
School Loan, 1906....................	1906	4	May and N.	November 1, 1926....................	207,000 00	
Sewer Bonds, Gold Reg............	1892	3½	M. and N.	May 1, 1907.............................	35,000 00	34,337 10
" " Gold Cou. or Reg.	1900	3	Jne. and D.	June 1, 1930	142,000 00	21,911 14
" " 1901 Gold Reg....	1901	3½	Mch. and S.	Sept. 1, 1902 to 1926. $1,000 annually..	20,000 00	
Sewer Loan, 1904 " "	1904	3½	F. and A.	Aug. 1, 1905 to 1923. $2,000 annually.	36,000 00	
Water Bonds. Coupon............	1903	3½	A. and O.	April 1, 1904 to 1908. $40,000 annually.	80,000 00	
" " Gold Coupon........	1890	3½	A. and O.	October 1, 1920........................	125,000 00	50,379 13
" " " "	1893	4	A. and O.	April 1, 1913...........................	200,000 00	
" " " "	1893	4	A. and O.	October 1, 1923........................	150,000 00	
Totals,					$2,542,900 00	$435,448 83

PURPOSES FOR WHICH THE FUNDED DEBT WAS CREATED.

Water works,			$555,000 00
Schoolhouses:—			
Central high,	$370,000 00		
Technical high,	342,000 00		
Other schools,	814,900 00		
		$1,526,900 00	
Sewers,		233,000 00	
Parks,		125,000 00	
Engine houses, etc.,		68,000 00	
City Hall, rear exits,		10,000 00	
Ludlow bridge and Water street extension,		25,000 00	
Debt exclusive of water debt,			1,987,900 00
Total debt,			$2,542,900 00

LIABILITIES AND CASH ASSETS, DECEMBER 10, 1906.

LIABILITIES.

Funded debt,	$2,542,900 00	
Interest on funded debt,	24,617 83	
Compensation of city employees,	35,910 81	
		$2,603,428 64

CASH ASSETS.

Due from the Commonwealth as follows:—		
For state aid,	$11,749 50	
For military aid,	272 00	
For burial of soldiers and sailors,	630 00	
For armory rent,	1,800 00	
For balance of corporation tax, 1906,	10,263 95	
Due on taxes of 1906 (less $12,000 estimated for abatements),	201,927 72	
Due on taxes of 1905,	10,857 49	
Amounts carried forward,	$237,500 66	$2,603,428 64

Amounts brought forward,	$237,500 66	$2,603,428 64
Due from abutters for watering streets in 1905 and 1906,	4,870 10	
Due the following departments for labor, material, etc.:—		
City Engineering department,	46 22	
Fire department,	35 00	
Forestry,	19 50	
Highways and bridges,	1,139 11	
Isolation hospital,	2,377 90	
Lighting streets,	32 25	
Pauper department,	4,153 72	
Public parks,	47 50	
Sewers and drains,	79 95	
Schools,	608 50	
Schools, evening trade,	253 00	
Schoolhouse repairs,	37 50	
Technical high school,	480 00	
Technical high school building,	5 05	
Walks and curbing,	6,103 41	
Water works,	4,056 32	
Cash in hands of Water Commissioners,	433 21	
Sinking funds (Commissioners' report),	435,448 83	
Cash in treasury,	451,433 06	
Total cash assets,		1,149,160 79
Net indebtedness,		$1,454,267 85
Increase of net indebtedness during the year,		969 59
Increase of funded debt during the year,		138,800 00

AVAILABLE CASH ASSETS.

From the foregoing statement the city has cash assets,	$1,149,160 79	
Liabilities other than funded debt,	60,528 64	
Surplus cash assets,		$1,088,632 15

Amount brought forward,		$1,088,632 15
From which deduct balances unexpended of special appropriations authorized by the City Council as follows:—		
Highways and bridges, street railway taxes,	$37,937 19	
Water street extension,	3,437 65	
Bridge commission,	1,978 35	
City yard, Summer street,	14,582 97	
Union street widening,	2,594 27	
Technical high school building,	11,474 99	
Armory street school addition,	68,738 81	
Chestnut street school addition,	75,066 07	
Central street school, additional land,	200 23	
School, Sumner avenue,	115 68	
Fire department, additions to apparatus and houses,	27,313 65	
Public parks,	1,927 63	
Premium received on school bonds,	10,558 38	
	$255,925 87	
Amount included in cash balance available for the water works sinking fund,	100,875 96	
Sinking funds,	435,448 83	
		792,250 66
Net available assets,		$296,381 49
Increase of available cash assets during the year,		6,906 51

AVAILABLE CASH.

Cash in treasury,	$451,433 06	
Less amounts appropriated for special accounts and due the sinking fund,	356,801 83	
Leaves available cash at the beginning of the fiscal year of 1907,		**$94,631 23**

The following table compiled from previous reports, compares the appropriations, funded water debt, funded debt other than water, sinking funds, inventory of city property, and the assessors' valuation of real and personal property from the year 1890 to 1906 inclusive:—

Year.	Appropriations.	Funded Water Debt.	Other Funded Debt.	Sinking Funds.	City Property.	Assessors' Valuation, Real and Personal.
1890	$507,450	$1,325,000	$124,000		$3,565,827	$44,493,633
1891	574,425	1,325,000	214,000	$22,734	3,898,688	48,329,634
1892	609,715	1,325,000	275,000	45,259	4,016,420	50,780,987
1893	664,050	1,675,000	263,000	75,202	4,221,382	55,239,919
1894	664,000	1,650,000	280,000	112,207	4,342,837	56,449,425
1895	732,300	1,625,000	319,500	192,297	4,444,867	59,033,141
1896	801,100	1,600,000	339,000	254,340	4,584,464	61,416,091
1897	872,300	1,575,000	783,500	357,471	4,930,027	64,898,379
1898	909,650	1,550,000	997,000	411,855	5,421,178	65,699,713
1899	978,175	1,525,000	968,800	506,654	5,597,122	69,869,847
1900	1,030,000	1,500,000	1,227,100	595,282	5,839,249	72,358,481
1901	1,075,500	1,475,000	1,379,900	711,033	6,037,513	74,338,927
1902	1,130,650	1,450,000	1,362,700	794,876	6,283,191	74,838,065
1903	1,170,000	875,000	1,480,500	296,461	6,419,151	77,207,898
1904	1,230,000	835,000	1,573,300	397,141	6,587,901	78,868,058
1905	1,270,000	595,000	1,809,100	384,424	6,664,416	80,904,476
1906	1,310,000	555,000	1,987,900	435,448	7,119,159	86,505,181

Respectfully submitted,

ELIPHALET T. TIFFT,

City Treasurer.

I hereby certify that I have examined, in detail, the foregoing abstracts from the accounts of the City Treasurer; that the receipts from various sources, as stated, are correct; that all expenditures are supported by vouchers regularly approved by the proper officials, and that the condition of various accounts—including cash on hand and in banks—on December 10, 1906, has been verified by comparison with records of this office.

WILLIAM C. MARSH,

Auditor of Accounts.

SPRINGFIELD, MASS., December 20, 1906.

BOARD OF ALDERMEN, December 31, 1906.

Read, accepted, ordered printed, and sent down for concurrence.

E. A. NEWELL, *Clerk.*

COMMON COUNCIL, December 31, 1906.

Read and concurred.

H. S. GILBERT, *Clerk.*

Presented to the Mayor for approval, January 1, 1907.

E. A. NEWELL, *City Clerk.*

MAYOR'S OFFICE, SPRINGFIELD, MASS., January 1, 1907.

Approved.

FRANCKE W. DICKINSON, *Mayor.*

1906. BALANCE SHEET. 1906.

	Dr.	Cr.
City of Springfield		$6,097,748 87
City Property	$7,119,159 47	
Funded Debt		2,542,900 00
Commissioners of the Sinking Funds	435,448 83	
Cash	451,433 06	
Collector Taxes 1905	10,857 49	
" Taxes 1906	213,927 72	
" Street Watering Taxes 1905	262 43	
" Street Watering Taxes 1906	4,607 67	
Collector Water Rents, etc	4,056 32	
Commonwealth of Massachusetts	12,678 50	
Water Works Sinking Funds		100,875 96
Corporation and Excise Tax, Springfield Street Ry. Co.		37,937 19
Appropriations, special	773,785 22	
Armory Street School Addition		68,738 81
Bridge Commissions		1,978 35
Court Square Extension		25,106 72
City Hall Fire Expenses		22 66
Central Street School, Additional Land		200 23
Chestnut Street School Addition		75,066 07
City Yard Summer Street		14,582 97
Fire Dept. Addition to Apparatus and Houses		27,313 65
Premium on City Bonds		10,558 38
Public Parks		1,927 63
Residues from Tax Sales		40 97
School House, Sumner Ave		115 63
Technical High School Building		11,474 99
Unredeemed Tax Liens	26 57	
Union Street Widening		2,504 27
Water Commissioners	433 21	
Water Street Extension		3,487 65
Collector, Bills Collectible	15,418 61	
Bills Collectible, City Engineering Dept		46 22
" " Evening Trade School		253 00
" " Fire Department		35 00
" " Forestry		19 50
" " Highways and Bridges		1,139 11
" " Isolation Hospital		2,377 90
" " Lighting Streets		32 25
" " Pauper Department		4,153 72
" " Public Parks		47 50
" " Schools		606 50
" " Sewers and Drains		79 95
" " Schoolhouse Repairs		37 50
" " Technical High School		480 00
" " Technical High School Building		5 05
" " Walks and Curbing		6,103 41
" " Water Works		4,056 32
	$9,042,095 10	$9,042,095 10

EXPENDITURES IN DETAIL

WITH

DEPARTMENTS ARRANGED ALPHABETICALLY.

COMPILED BY THE CITY TREASURER.

Abatement of Taxes.

Heirs of John Dunleavy, abatement,	$27 00	
Heirs of George E. Stacy, abatement,	15 00	
Catherine F. Cook, abatement,	15 00	
Thomas Morrison, abatement,	7 50	
Gurdon Bill, abatement,	7 02	
Paul Kaplan, abatement,	6 00	
Chas. B. and Bessie V. Richardson, abatement,	6 00	
George Kimball, abatement,	2 25	
Robert M. West, abatement,	2 00	
Francis Plant, abatement,	2 00	
George H. Lyon, abatement,	2 00	
Arthur P. Bardwell, abatement,	2 00	
W. R. Washburn, abatement,	1 50	
Total abated after payment,	$95 27	
Abated before payment,	12,692 82	
To contingent account,	30,838 05	
		$43,626 14

Cr.

By overlayings (surplus from tax levy),	$43,626 14	
		$43,626 14

Armory Street School Addition. (Not Completed.)

D. W. Mellen, on account contract,	$2,840 00	
George Huey, consulting engineer,	225 00	
City Engineering Department, services of engineers,	4 12	
Water Works, water connections,	141 67	
Sewers and Drains, sewer connection,	10 67	
The Springfield Union, advertising,	18 83	
Republican Co., advertising,	13 55	
Daily News Publishing Co., advertising,	5 25	
Springfield Homestead Newspaper Co., advertising,	2 10	
Total payments,	$3,261 19	
Balance unexpended,	68,738 81	
		$72,000 00

Cr.

By appropriations,	$72,000 00	
		$72,000 00

Assessors' Department.

George B. Smith, assessor,	$1,600 00
George B. Smith, cash paid,	57 71
Frank S. Crane, assessor,	1,383 34
Frank A. Lawton, assessor,	1,383 34
John Davis, assistant assessor,	148 00
John Davis, cash paid and rent of automobile,	46 10
Michael F. Kelliher, assistant assessor,	134 00
Michael F. Kelliher, cash paid,	2 15
Ernest A. Witt, assistant assessor,	117 25
Ernest A. Witt, cash paid,	7 70
William G. Ryan, assistant assessor,	115 50
William G. Ryan, cash paid,	6 80
Erwin F. Markham, assistant assessor,	97 50
Erwin F. Markham, cash paid,	4 75
Amount carried forward,	$5,104 14

Amount brought forward,	$5,104	14
Arthur S. Burt, assistant assessor,	97	50
Arthur S. Burt, cash paid,	6	75
Charles D. Ufford, assistant assessor,	96	00
Charles D. Ufford, cash paid,	5	20
Charles T. Hudson, assistant assessor,	75	00
Charles T. Hudson, cash paid,	5	25
City Engineering Department, services of engineers,	1,000	00
Mabel C. Bemis, clerical work,	644	22
Mary R. Smith, clerical work,	644	22
Catherine T. Leonard, clerical work,	644	22
Florence M. Hyde, clerical work,	160	12
Minnie D. Burt, clerical work,	127	75
Nellie G. Smith, clerical work,	69	00
Anna C. Murray, clerical work,	46	50
Grace E. Stebbins, clerical work,	43	75
Jessie I. Cooley, clerical work,	42	00
Elizabeth B. Galpin, clerical work,	39	38
Bessie S. Doyle, clerical work,	38	75
Lillian B. Schofield, clerical work,	27	50
Ethel A. Belden, clerical work,	22	50
Grace E. Hawkins, clerical work,	12	50
Springfield Printing and Binding Co., printing,	1,430	22
The Springfield Union, advertising,	14	33
Springfield Homestead Newspaper Co., advertising,	12	60
Republican Co., advertising,	9	50
Daily News Publishing Co., advertising,	7	00
Henry R. Johnson, stationery,	78	90
J. G. Lutz, letter heads,	15	10
Bowen and Son, paper,	5	85
H. Rude, paper,	2	00
Baker-Vawter Co., binders, etc.,	18	15
Price & Lee, directories,	16	00
Banker & Tradesman, subscription,	5	00
Dissell Publishing Co., annotations,	1	00
Amount carried forward,	$10,567	90

Amount brought forward,	$10,567 90	
Meekins, Packard & Wheat, bookcases,.....	58 65	
Homer Foot & Co., tape,.................	1 17	
Henry & Marsh, livery,..................	40 00	
Bowman & Gregg, electrical work,.........	10 67	
New England Telephone and Telegraph Co., service, ...	8 00	
Total payments,..................	$10,686 39	
To contingent account,............	213 61	
		$10,900 00

Cr.

By appropriation, ...	$10,900 00	
		$10,900 00

Auditing Department.

W. O. Marsh, city auditor,...............	$1,800 00	
W. O. Marsh, cash paid,.................	6 95	
Isabel Hicks, clerical work,..............	277 50	
Miss E. C. Haskell, clerical work,........	4 38	
Springfield Printing and Binding Co., printing, ...	81 85	
J. G. Lutz, letter heads,.................	9 00	
H. Rude, stationery,.....................	6 64	
A. H. Bartlett, pads,....................	1 30	
Harry L. Hawes, subscription,............	4 08	
Walter D. Phelps, subscription,...........	2 50	
P. P. Kellogg Co., Div., catalogue,........	1 05	
Price & Lee, directory,..................	4 00	
D. Schoonmaker, plating,................	75	
Total payments, ...	$2,200 00	

Cr.

By appropriation, ...	$2,200 00	
		$2,200 00

Barrows School Sanitaries. (Completed.)

F. F. Warner, balance contract,	$3,504 98	
Hawes & Gray, balance contract,	1,743 00	
Charles J. Short, balance contract,	250 00	
F. R. Richmond, plans and specifications,	209 20	
United Electric Light Co., lighting,	27 25	
H. J. Pratt & Co., copper work,	9 66	
Sackett Bros., labor,	6 00	
Springfield Union, advertising,	1 65	
Republican Co., advertising,	1 30	
Daily News Publishing Co., advertising,	1 00	
Total payments,	$5,754 04	
Transferred to Schoolhouse Repairs,	245 96	
		$6,000 00
Cr.		
By appropriation,	$6,000 00	
		$6,000 00

Birnie Avenue Extension.

Springfield Street Railway Co., land for extension,	$3,097 50	
Total payment,		$3,097 50
Cr.		
By appropriation,	$3,097 50	
		$3,097 50

Board of Health.

James Kimball, agent,	$1,200 00	
James Kimball, cash paid,	67 23	
F. W. Tower, plumbing inspector,	1,483 33	
H. C. Emerson, health physician,	1,249 76	
William L. Young, sanitary inspector,	1,000 00	
Jacob R. Sackett, sanitary inspector,	819 90	
Amount carried forward,	$5,820 22	

Amount brought forward,	$5,820	22
Stephen C. Downs, inspector of milk and vinegar,	675	00
Stephen C. Downs, cash paid,	79	36
E. B. Hodskins, inspector of milk and vinegar,	225	00
E. B. Hodskins, rent of motor wagon,	55	00
B. D. Pierce, inspector of meat and provisions,	300	00
Grace E. Warren, agent's clerk,	550	00
Isabel Hicks, clerical work,	19	25
Florence M. Hyde, clerical work,	3	50
Minnie D. Burt, clerical work,		90
Water Works, office rent,	262	50
Springfield Street Railway Co., car tickets,	200	00
New England Telephone and Telegraph Co., service,	53	94
United Electric Light Co., lighting,	13	79
Patrick Sullivan, care dumping ground,	391	25
O. S. Thayer, painting,	90	00
Walks and Curbings, laying walks,	10	79
L. W. Dunlap, repairs,	4	25
George M. Fiske, repairs,	3	30
Springfield Printing and Binding Co., printing,	336	59
Republican Co., advertising,	7	55
Springfield Union, advertising,	1	05
Daily News Publishing Co., advertising,		76
J. G. Lutz, letter heads,	83	50
Henry R. Johnson, stationery,	52	55
H. Rude, stationery,	28	71
George Smith, plumber's examinations,	25	00
Library Bureau, cards,	22	68
Baker-Vawter Co., leaves and binder,	13	30
Dennison Mfg. Co., labels,	9	60
Morgan Crossman Co., stamps,	4	35
Morgan Envelope Co. Div., envelopes,	1	25
F. S. Webster Co., ribbon,	5	20
Amount carried forward,	$9,350	14

Amount brought forward,	$9,350 14	
Price & Lee Co., directory,	4 00	
G. B. Heaney Co., copy holder,	2 50	
City of Boston, aid rendered,	41 43	
"Sanitas" Co., formaldehyde,	76 99	
H. & J. Brewer, chemicals,	25 13	
Fisk Mfg. Co., sulphate,	1 89	
Ernest Monnier, jars, etc.,	16 50	
L. W. Brown, boxes,	22 00	
Jonathan Short, tables,	14 04	
C. E. Rice, measures,	11 72	
F. M. West Box Co., slides,	10 05	
Schedgel & Fottler Co., tongue depressor,	10 00	
Hatch Experiment Station, testing machines,	8 20	
Vermont Farm Machine Co., tester,	92	
H. W. Stacy, gauge,	6 90	
C. Rogers & Co., hydrometers,	5 15	
U. S. Mailing Co., cases,	3 36	
Meekins, Packard & Wheat, towels,	2 97	
Smith & Murray, needles,	4 81	
T. Shea, lime,	4 00	
Forbes & Wallace, stove,	2 39	
Felcher Mfg. Co., wires,	2 00	
Hampden Lumber Co., lumber,	1 54	
L. E. Knott Apparatus Co., cork,	1 40	
Goodyear Rubber Store, gloves	1 25	
Wm. M. Williams, microbe slides,	1 00	
Columbia Towel Supply Co., towel supply,	12 00	
Springfield Pure Water Co., use of filter,	9 00	
H. A. Johnson, cartage,	9 00	
Fred Schmidt, livery,	3 00	
A. Bannister, livery,	2 00	
Total payments,	$9,667 28	
Transferred to medical inspection of schools,	600 00	
Transferred to Isolation Hospital,	475 00	
To contingent account,	196 71	
		$10,938 99

Cr.

By appropriation,	$10,600 00	
Old typewriter sold and rebate on new typewriter,	29 75	
License to remove dead animals,	1 00	
From Collector: sundry collections,	101 74	
Milk licenses,	135 00	
Plumbers' licenses,	51 50	
House offal licenses,	20 00	
		$10,938 99

Central Street School—Additional Land. (Not Completed.)

Mary E. F. Law, land and buildings on Central street,	$7,500 00	
Water Works, water rent,	6 00	
L. R. Allard, labor,	1 85	
W. G. Adams, labor,	75	
The Springfield Union, advertising,	67	
Republican Co., advertising,	50	
Total payments,	$7,509 77	
Balance unexpended,	200 23	
		$7,710 00

Cr.

By appropriation,	$7,500 00	
H. L. Dorman, rents from property on Central street,	210 00	
		$7,710 00

Chestnut Street School Addition. (Not Completed.)

Lawrence W. Ladd, land and buildings,	$15,000 00	
H. G. Wells, auctioneer services,	10 00	
City Engineering Department, services,	4 13	
Springfield Union, advertising,	3 45	
Republican Co., advertising,	2 35	
Total payments,	$15,019 93	
Balance unexpended,	75,066 07	
		$90,086 00

Cr.

By appropriations, ...	$89,600 00	
Sale of old barn and fence,.........	486 00	
		$90,086 00

City Clerk's Department.

E. A. Newell, City Clerk,................	$2,400 00
E. A. Newell, cash paid,.................	110 51
Annie H. Hawkes, Assistant City Clerk,..	891 66
Gertrude Adams, clerical assistance,......	675 75
Bertha B. Fuller, clerical assistance,......	579 97
Cora B. Haskell, clerical assistance,.......	480 00
Sundry physicians, fees for returning births,	344 50
Arthur S. Burt, canvassing for births,.....	130 65
William G. Ryan, canvassing for births,...	66 90
Ernest A. Witt, canvassing for births,.....	39 90
Sundry undertakers, fees for returning deaths, ...	323 00
Springfield Printing and Binding Co., printing, ...	262 65
Republican Co., advertising,..............	39 80
Springfield Union, advertising,...........	29 28
Daily News Publishing Co., advertising,...	16 50
New England Telephone and Telegraph Co., service, ...	37 04
F. S. Webster Co., carbon paper,..........	26 00
Smith Premier Typewriter Co., paper,....	11 30
H. W. Carter & Co., paper,...............	5 18
Henry R. Johnson, envelopes,.............	5 03
Blackbird Pen Co., pens,.................	15 00
H. Rude Co., erasers,....................	7 60
Morgan, Crossman & Co., stamps,........	7 60
Harry L. Hawes, subscription,............	5 92
Price & Lee Co., directory,...............	4 00
Walter D. Phelps, weekly guide,..........	2 50
J. H. Gifford, dog tags,..................	56 50
Amount carried forward,	$6,574 74

Amount brought forward,	$6,574 74	
William E. Clark, boxes,	13 35	
United Electric Light Co., heater,	12 50	
Jonathan Short, carpenter work,	1 00	
Total payments,	$6,601 59	
To contingent account,	232 14	
		$6,833 73

Cr.

By appropriations,	$5,200 00	
Official fees,	1,633 73	
		$6,833 73

City Engineering Department.

Charles M. Slocum, City Engineer,	$2,300 00
Charles M. Slocum, rent of automobile,	200 00
Charles M. Slocum, cash paid,	27 90
W. A. Brown, first assistant engineer,	1,200 00
H. E. Flint, assistant engineer,	1,166 68
E. G. Martin, assistant engineer,	1,030 76
E. F. Young, assistant engineer,	915 00
H. T. Murphy, assistant engineer,	861 76
C. J. Hancock, assistant engineer,	766 49
C. A. L. Wright, assistant engineer,	622 50
A. P. Slocum, assistant engineer,	586 69
E. W. Burnett, assistant engineer,	555 20
O. F. Cooley assistant engineer,	336 67
J. D. Williams, assistant engineer,	252 00
Mace Moulton, engineering services,	457 10
A. M. Hancock, stenographer,	371 00
E. I. Gibbins, stenographer,	229 00
Water Works, office rent,	550 00
Springfield Street Railway Co., car tickets,	300 00
New England Telephone and Telegraph Co., services,	16 64
United Electric Light Co., lighting,	14 08
Eugene Dietzgen Co., draughting supplies,	77 76
Amount carried forward,	$12,837 23

Amount brought forward,	$12,837 23
E. G. Soltmann, tracing cloth, etc.,	74 76
Universal Drafting-Machine Co., instruments,	39 00
Buff & Buff Mfg. Co., transit,	35 40
Geo. A. Graves & Sons, hardware,	29 57
J. Douglas Law, hardware,	1 55
Springfield Gas Light Co., mantles,	75
C. Rogers & Co., glass,	25
Harvey & Lewis Co., thermometer,	20
C. P. Chase & Co., lumber,	24 55
Burger & Taft, ice,	7 80
Granger Towel Supply Co., towel supply,	7 50
Winslow J. Eaton, towel supply,	6 00
Cutler & Porter, boots,	3 71
Maynard Rubber Corporation, coat,	3 50
Carter & Cooley, cravenette,	1 50
Arthur A. Call, soap,	2 00
H. & J. Brewer, potash,	61
Henry R. Johnson, stationery,	73 35
Spaulding Print Paper Co., paper,	27 06
H. Rude, paper,	24 47
Keystone Blue Paper Co., paper,	4 95
G. E. Trask, paper,	3 50
Rochester Carbon Mfg. Co., paper,	3 50
H. W. Carter & Co., paper,	2 03
J. G. Lutz Lithographic Co., letter heads,	9 00
Morgan Envelope Co. Div., envelopes,	2 00
Smith Premier Typewriter Co., ribbon, etc.,	4 60
Springfield Printing and Binding Co., printing,	59 00
Engineering News Publishing Co., subscription,	5 00
Municipal Journal Publishing Co., subscription,	3 00
Engineering Record, subscription,	3 00
Price & Lee Co., directory,	4 00
H. R. Huntting & Co., book,	3 60
Amount carried forward,	$13,307 94

Amount brought forward,	$13,307 94	
H. P. Ferre, stamps,	3 01	
Geo. M. Burnham, estimates,	10 00	
Starr Electric Co., electrical work,	4 26	
John W. Russell, machine work,	2 00	
Meekins, Packard & Wheat, repairs,	2 50	
Theo. Alexander & Son, repairs,	1 55	
V. M. Frost, livery,	17 00	
G. A. Siddell, livery,	2 00	
F. E. Webb, livery,	1 50	
Total payments,	$13,351 76	
To contingent account,	274 14	
		$13,625 90
Cr.		
By appropriation,	$10,000 00	
Transferred from contingencies,	700 00	
Collector: from sundry departments for services of assistant engineers,	2,925 90	
		$13,625 90

City Hall Fire Expenses. (Not Completed.)

Meekins, Packard & Wheat, furniture,	$20 08	
Reynolds & Co., labor,	11 40	
Total payments, 1906,	$31 48	
Total payments, 1905,	13,491 84	
Balance unexpended,	22 68	
		$13,546 00
Cr.		
By appropriation,	$13,000 00	
Sale of material in City Hall ruins,	546 00	
		$13,546 00

City Library Association.

City Library Association,	$40,525 39	
Total payments,		$40,525 39

Cr.

By appropriations of City Council,	$36,000 00	
County Treasurer, dog fund of 1905,	4,525 39	
		$40,525 39

City Wires Underground.

Okonite Co., wire,	$1,890 00	
Gamewell Fire-Alarm Telephone Co., alarm posts,	111 75	
Oliver & Howland Co., pipe,	54 10	
A. D. Wheeler, Agt., terminals,	30 00	
A. C. Perkins, labor,	72 00	
Reynolds & Co., labor,	61 20	
R. E. & A. M. Davis, labor,	15 90	
S. L. Wheeler, cash paid,	7 43	
Total payments,	$2,242 38	
To contingent account,	7 62	
		$2,250 00

Cr.

By appropriation,	$2,250 00	
		$2,250 00

City Yard, Summer Street. (Not Completed.)

Heirs of A. S. Dwelly, Hannah M. Dwelly, and Mrs. Raymond, land for city yard,	$23,000 00	
W. H. Falvey, on account contract,	3,200 00	
Kirkham & Parlett, on account of plans and supervision,	330 00	
Water Works, water connections,	78 17	
N. D. Winter, auctioneer expenses,	280 90	
City Engineering Department, services of engineers,	4 25	
Springfield Union, advertising,	10 06	
Republican Co., advertising,	7 40	
Daily News Publishing Co., advertising,	6 25	
Total payments,	$26,917 03	
Balance unexpended,	14,582 97	
		$41,500 00

Cr.

By appropriation,	$14,250 00	
By sale of City Yard, Lyman street, at auction,	27,250 00	
		$41,500 00

Collector's Department.

Charles A. Frazer, Collector of Taxes and Water Rents,	$2,192 29
Charles A. Frazer, stamped envelopes, etc.,	526 71
Elizabeth H. Clark, clerk,	696 25
Walter A. Parrish, clerk,	668 37
Fannie M. Brown, clerk,	604 46
Mabel R. Stacy, clerk,	347 63
Leon C. Johnson, clerical work,	181 78
Grace E. Babcock, clerical work,	179 25
Harold G. Wells, clerical work,	125 14
Anna C. Murray, clerical work,	108 00
Anna L. Jackson, clerical work,	87 50
Edward E. Hosmer, clerical work,	81 92
Anna F. Leonard, clerical work,	45 00
Elizabeth Galpin, clerical work,	43 75
Katherine H. Leavitt, clerical work,	36 88
Mabel R. Mandell, clerical work,	36 00
Elizabeth M. Ford, clerical work,	33 75
Jane E. Ford, clerical work,	30 00
Bessie S. Doyle, clerical work,	22 50
Carrie M. Bridgeman, clerical work,	21 87
Nellie G. Smith, clerical work,	17 50
John Wilbur, clerical work,	12 00
Willis F. Allen, clerical work,	10 50
Susie M. Moore, clerical work,	10 00
Jessie I. Cooley, clerical work,	8 75
Francis A. Moore, clerical work,	6 25
Clifford C. Haynes, clerical work,	4 80
Georgia E. Moulton, clerical work,	4 50
Florence Nichols, clerical work,	3 00
Amount carried forward,	$6,146 35

Amount brought forward,	$6,146 35
Myra Bourn, clerical work,	75
Edward Cuneo, services,	3 00
Mandell Riner, Polish interpreter,	2 00
Cone & Sherwood, bond,	72 68
Springfield Printing and Binding Co., printing,	891 85
Republican Co., advertising,	65 70
Springfield Union, advertising,	63 95
Springfield Homestead Newspaper Co., advertising,	58 00
Daily News Publishing Co., advertising,	56 25
Thomas F. English, advertising,	21 00
Brandt Cashier Co., automatic cashier,	97 50
Felt & Terrant Mfg. Co., stamps,	60 00
H. P. Ferre, stamps,	25 75
George M. Fiske, stamps,	3 40
Addressograph Co., sealer,	15 00
C. L. Young, frame,	2 00
Homer Foot & Co., thermometer,	45
Henry R. Johnson, stationery,	79 51
J. G. Lutz, letter heads,	26 23
Smith Premier Typewriter Co., paper,	2 40
Burroughs Adding Machine Co., paper,	1 50
American Arithmometer Co., paper,	1 50
H. W. Carter & Co., paper,	68
W. J. Eldred, paper,	60
W. E. Kendall, paper,	50
Blackbird Pen Co., pens,	15 00
W. S. Bagg, pens,	1 50
Baker-Vawter Co., binder,	15 40
Price & Lee Co., directories,	12 00
C. H. Jordan Co., book,	2 25
Goodyear Rubber Store, bands,	3 80
New England Telephone and Telegraph Co., service,	8 20
Hawes & Gray, electrical work,	8 50
Amount carried forward,	$7,765 20

Amount brought forward,	$7,765 20	
Bowman & Gregg, electrical work,........	3 25	
Meekins, Packard & Wheat, repairs,......	1 12	
T. B. Gilbert, labor,....................	50	
Forbes & Wallace, screen,...............	5 00	
Maynard Rubber Corporation, rubber,....	1 17	
J. Douglas Law, shears,.................	1 00	
C. O. George, sign,.....................	35	
Geo. H. Gould, livery,..................	3 00	
Total payments, ...	$7,780 59	
To contingent account,............	402 39	
		$8,182 98
Cr.		
By appropriation, ...	$6,100 00	
Collector's official fees from Dec. 11, 1905, to Dec. 10, 1906,.....	2,082 98	
		$8,182 98

Collection of Ashes.

Pay roll, ...	$19,820 57
H. A. Braman, collecting at Indian Orchard, ...	266 64
Philip Labossiere, collecting at Indian Orchard, ...	75 00
Henry Bailey, collecting at Indian Orchard,	21 00
V. E. Moore, feed,......................	512 17
Springfield Commission House, feed,......	170 35
C. C. Merritt, feed,.....................	167 95
Franklin Harder, feed,..................	143 25
H. C. Puffer Co., feed,.................	73 99
Hampden Hay & Grain Co., feed,.........	51 44
Strong, Lefferts Co., feed,...............	34 29
Joseph W. Bates, gray mare,.............	200 00
J. A. Sheckler, exchange of horses,........	165 00
T. J. Regnier, harness supplies,..........	121 55
Burgin Bros., wagon covers,.............	7 25
S. J. Buckland, barrel carriers,...........	18 00
Amount carried forward,	$21,848 45

Amount brought forward,	$21,848 45	
Hampden Lumber Co., lumber,	13 12	
Homer Foot & Co., hardware,	5 10	
Thomas R. O'Brien, ash carts,	607 09	
James Healey, horse shoeing,	169 95	
A. E. Littlefield, horse shoeing,	50 35	
Henry W. Fitch, horse shoeing,	27 25	
Adolph Thiebe, horse shoeing,	10 35	
P. E. Cleary & Co., blacksmithing,	4 60	
C. J. Bailey, wagon repairs,	55 00	
N. L. Byron, wagon repairs,	14 00	
J. C. Curley, veterinary services,	13 00	
W. J. Glasgow, veterinary services,	2 00	
M. E. Chapin, veterinary services,	1 00	
P. R. Hadlock, clipping horses,	4 00	
W. A. Carter, cash paid,	22 55	
Springfield Printing and Binding Co., printing,	4 52	
Springfield Union, advertising,	68	
Republican Co., advertising,	55	
Total payments,	$22,853 56	
To contingent account,	76 46	
		$22,930 02

Cr.

By appropriation,	$21,000 00	
Transferred from contingencies,	1,850 00	
Sundry receipts,	80 02	
		$22,930 02

Contingencies.

DAMAGES AND ALLOWANCES.

Thomas Madden, personal injuries, Board on Claims,	$75 00
Catherin Maloney, personal injuries, Board on Claims,	50 00
Amount carried forward,	$125 00

Amount brought forward,	$125 00	
Mildred M. Griffin, personal injuries, Board on Claims,	400 00	
Chas. E. Dow, personal injuries, Board on Claims,	350 00	
Fred V. Tumey, personal injuries, Board on Claims,	125 00	
Margaret Connors, personal injuries, Board on Claims,	40 00	
Mary A. Daily, personal injuries, Board on Claims,	60 00	
P. J. Smith, personal injuries, Board on Claims,	77 50	
Margaret De Rose, personal injuries, Board on Claims,	200 00	
Milton B. Reach, personal injuries, Board on Claims,	50 00	
Smith & Adams, damages from loss of spring by construction of Mill River Valley sewer, Board on Claims,	250 00	
Annie A. Burnett, land damages, Berkshire street, judgment of court,	742 71	
Anna C. Bradley and Katherine H. Leonard, damages relocating Mulberry street, Board on Claims,	50 00	
Mrs. Nellie Bowers, widow of Sidney Bowers, who lost his life in the Highland Baptist Church fire, January 3, 1906, special act of the Legislature, Chap. 295, 1906,	1,000 00	
Heirs of Mrs. Elizabeth Norris Hines, deceased, widow of Francis E. Hines, who lost his life in the Highland Baptist Church fire, January 3, 1906, special act of the Legislature, Chap. 295, 1906,	1,000 00	
Emil Marcus, refund of city peddler's license fee, by order of City Council,	25 00	
Lazar Goodless, junk license fee refunded,	2 00	
		$4,497 21

Amount brought forward,		$4,497 21

EXPENSES OF MAINTAINING SWIMMING POOLS AND PLAYGROUNDS.

A. E. Metzdorf, director,	$150 00	
A. E. Metzdorf, cash paid,	5 35	
A. W. Hendriman, attendant,	137 00	
H. A. Cook, attendant,	134 00	
A. Briggs, attendant,	128 00	
C. E. Briggs, attendant,	54 00	
James Donovan, attendant,	40 00	
E. A. Werner, attendant,	38 00	
V. G. Irwin, attendant,	4 00	
Stillman B. Call, oars, balls, bats, etc.	31 68	
J. Douglas Law, hardware,	17 22	
Springfield Lumber Co., lumber,	22 26	
Hampden Lumber Co., lumber,	2 89	
John Swaine, rings and hooks,	1 12	
E. F. Leonard & Co., paint, etc.,	4 20	
Forbes & Wallace, trunks and towels,	7 80	
W. M. Young & Co., banner,	5 00	
H. F. King, towing float, etc.,	17 00	
B. Tanner, cartage,	7 20	
E. H. Newell, labor,	1 60	
Ralph Moody, care of float,	5 00	
		$813 32

MISCELLANEOUS.

Commonwealth of Massachusetts, one fourth of amount received for liquor licenses in 1906,	$25,097 25	
County of Hampden, Board of Truants, 1906,	379 24	
E. K. Wilcox post, G. A. R., appropriation for Memorial day,	500 00	
Amounts carried forward,	$25,976 49	$5,310 53

Amounts brought forward,	$25,976 49	$5,310 53
Henry W. Lawton camp, L. S. W. V., appropriation for Memorial day,........	150 00	
Independence Day Association, appropriation for the observance of July 4,....	300 00	
John D. Gill, maintaining street ice water tanks, season of 1906,...............	600 00	
Rod and Gun Rifle Club, rent of rifle range for military companies, 1906,........	200 00	
D. O. Gilmore, rent and lighting License Commissioners' office, ...	123 67	
R. Hale Smith, services on Board of Public Works, ...	153 00	
C. C. Margerum, services on Board of Public Works, ...	153 00	
John McFethries, services on Board of Public Works, ...	153 00	
R. Richter & Co., refund of proportionate amount of liquor license surrendered,	1,228 77	
Daniel Spaight, refund of proportionate amount of liquor license surrendered,	1,040 75	
A. P. Leshure, inspector of buildings.....	999 96	
James L. Bowen, sealer of weights and measures, ...	600 00	
James L. Bowen, cash paid,.............	12 56	
H. S. Gilbert, clerk of Common Council,..	300 00	
Mary E. Hart, clerk License Commissioners,	100 00	
S. L. Wheeler, supervisor of wires,......	100 00	
C. H. Beckwith, chairman License Commissioners, ...	125 00	
C. H. Beckwith, cash paid,.............	13 05	
J. J. O'Malley, fish warden,.............	12 50	
N. D. Winter, auctioneer's services,......	50 00	
United Electric Light Co., lighting Hooker School clock, ...	26 88	
Water Works, rent of office for sealer and use of land for playground,..........	162 50	
Amounts carried forward,	$32,581 13	$5,310 53

Amounts brought forward,	$32,581 13	$5,310 53
F. A. Bassett Co., printing liquor licenses,	67 00	
J. C. Lutz Lithograph Co., letter heads,...	8 50	
Springfield Printing and Binding Co., printing,	11 84	
Gertrude M. Griswold, stenographer,.....	22 00	
E. R. Smith, cards,......................	2 00	
H. P. Ferre, stamps,....................	1 58	
H. Rude Co., paper,.....................	1 00	
Republican Co., advertising,.............	39 40	
Springfield Union, advertising,..........	28 50	
Daily News Publishing Co.,.............	15 38	
F. E. Ladd, repairing clock,.............	10 00	
P. C. Fitzpatrick, repairing clock,........	5 98	
Malden Specialty Co., sealer's marking acid,	4 50	
John J. Hargraves, sealer's marking acid,	1 25	
W. & L. E. Gurley, sealer's pens, etc.,....	6 51	
Wm. G. Adams, labor,..................	1 25	
Bacon & Donnovan Engine Co., box truck,	1 25	
V. M. Frost, livery,.....................	52 50	
Seymour Stables, livery,.................	32 00	
Henry & Marsh, livery,.................	18 00	
		32,911 57
Total payments, ...		$38,222 10
Transferred to Schools, City Property Committee, ...	5,000 00	
Transferred to Schoolhouse Repairs,.....	1,835 20	
Transferred to Municipal Building Expenses, ...	600 00	
Transferred to Isolation Hospital,........	600 00	
Transferred to Collection of Ashes,........	1,850 00	
Transferred to Schools,..................	8,500 00	
Transferred to Printing and Stationery,...	150 00	
Transferred to City Engineering Dept.,...	700 00	
Transferred to Police and Watch,.........	1,600 00	
Amounts carried forward,	$20,835 20	$38,222 10

Amounts brought forward,	$20,835 20	$38,222 10
Transferred to Medical Inspection of Schools,	153 00	
Transferred to Military Aid,	204 00	
Transferred to Military Aid, Spanish War,	90 00	
Transferred to South End Bridge, Separation of Grades,	4 50	
Transferred to appropriations of 1906,	198,300 00	
Transferred to City of Springfield,	43,269 66	
		262,856 36
		$301,078 46

Cr.

From State Treasurer, balance of corporation tax, 1905,	$5,803 10
From State Treasurer, on account of corporation, tax 1906	113,603 42
Balance of National Bank account,	6,357 30
From Collector of Taxes, additional taxes of 1905 and 1906,	2,955 74
Transferred from Premium on City Bonds account,	12,000 00
From Timothy H. Shea, for West Union street schoolhouse, sold at auction,	3,600 00
From King & Carlisle for Plainfield Street Schoolhouse, sold at auction,	1,900 00
From Dana Malone, Atty. Gen'l., penalty from Gas Co. for furnishing inferior gas,	100 00
From Collector of Taxes, taxes paid after being abated,	10 73
Fees from swimming pools,	68 10
From Collector of Taxes, collection of bills for taking special census, etc.,	834 76
Refund of amounts of duplicate bills,	6 20
For liquor licenses,	102,660 52
For auctioneers' licenses,	44 00
Amount carried forward,	$249,943 87

Amount brought forward,	$249,943 87	
For billiard and pool licenses,	250 00	
For circus and exhibition licenses,	872 00	
For intelligence office licenses,	30 00	
For hack and truck wagon licenses,	160 00	
For junk licenses,	22 00	
For licenses to deal in second hand articles,	32 00	
For pawnbrokers' licenses,	150 00	
For rag gatherers' licenses,	276 00	
For coal and coke licenses,	23 00	
For private detective licenses,	20 00	
For small loan licenses,	25 00	
For sealer of weights and measures' fees,	434 37	
For recording liquor licenses,	162 00	
For armory rent,	1,800 00	
Transferred from sundry accounts, unexpended balances,	46,878 22	
		$301,078 46

Court Square Extension. (Not Completed.)

M. D. Allen, commission for collecting rents,	$209 57	
M. D. Allen, cash paid,	186 07	
H. Gibson, janitor,	180 00	
S. Richard Carlisle, coal,	342 98	
R. W. Rice Coal Co., coal,	127 37	
Water Works, water rents,	203 37	
New England Telephone and Telegraph Co., service,	25 00	
Alexander Grant & Son, repairs,	12 25	
Charles E. Ladd, cash expenses,	5 00	
Expended in 1906,	$1,291 61	
Expended in 1905,	21,804 45	
Expended in 1904,	1,659 06	
Expended in 1903,	203,472 93	
Balance unexpended,	25,106 72	
		$253,334 77

Cr.

By receipts from bond issue, public subscriptions, and other sources in 1903,..	$232,973 69	
Collector: interest allowed on average balance of account during 1904-1905-1906,	1,736 08	
Chas. E. Ladd: rents from property on Court Square Extension, 1904-1905-1906,	18,625 00	
		$253,334 77

Election Expenses.

Services of precinct officers,	$2,520 00
Edith M. Ware, clerk of board of registration,	663 30
E. A. Newell, registrar of voters,	125 00
Wm. W. Bartlett, registrar of voters,	125 00
Edward A. Hall, registrar of voters,	125 00
Orthello K. Merrill, registrar of voters,	125 00
Springfield Printing and Binding Co., printing,	1,229 07
Springfield Union, advertising,	49 80
Republican Co., advertising,	35 00
Daily News Publishing Co., advertising,	30 26
Springfield Homestead Newspaper Co., ad-advertising,	25 65
H. Rude Co., paper,	21 80
H. W. Carter & Co., paper,	9 82
Henry M. Meek Publishing Co., paper,	6 00
Henry R. Johnson, pencils,	17 50
Commonwealth of Mass., register of voters,	10 50
Morgan, Crossman & Co., stamps,	40
M. Glauber & Co., candles,	13 72
Meekins, Packard & Wheat, furniture,	5 83
Springfield Gas Light Co., mantles,	2 47
Smith & Murray, duck,	2 00
James M. Daly, hammer,	35
Amount carried forward,	$5,143 47

Amount brought forward,	$5,143 47	
R. W. Rice Coal Co., coal,	35	
Sundry persons, care of ward rooms,	134 50	
Steele & Bugbee, rent of polling place,	82 50	
C. H. Annable, rent of polling place,	80 00	
Geo. H. Rist, rent of polling place,	52 50	
Rudolph Meyer, rent of polling place,	45 00	
Geo. Methe & Son, rent of polling place,	45 00	
E. K. Wilcox Post 16, G. A. R., rent of polling place,	40 00	
Geo. A. Graves, rent of polling place,	24 00	
C. M. Bingham, rent of polling place,	22 50	
Mrs. John Clark, rent of polling place,	15 00	
H. K. Wight, rent of polling place,	10 00	
Simpson Clark, rent of polling place,	7 50	
L. O. Eaton, carpenter work,	345 29	
Geo. H. McClean, piping,	43 88	
Fred A. Bicknell, gas fitting,	19 98	
Geo. W. Taylor, work on boxes,	14 75	
E. W. Oatley & Co., carting,	79 88	
Levi Payette, carting,	56 50	
Seymour Stables, livery,	74 00	
John Collins, livery,	12 00	
Henry & Marsh, livery,	4 00	
E. A. Newell, cash paid,	2 15	
New England Telephone and Telegraph Co., service,	89	
Total payments,	$6,355 64	
To contingent account,	1,144 36	
		$7,500 00

Cr.

By appropriation,	$7,500 00	
		$7,500 00

Fire Department.

W. J. Littlefield, Chief Engineer,	$1,800 00	
W. H. Daggett, deputy chief engineer,	1,400 00	
S. L. Wheeler, superintendent of fire alarm,	1,150 00	
J. A. Stevens, assistant engineer,	350 00	
		$4,700 00

PAY ROLL OF PERMANENT AND CALL MEN.

Services of permanent and substitute members of the permanent force of the department from December 3, 1905, to December 2, 1906,	$82,264 70	
Engine Company No. 1, services of call men,	509 78	
Engine Company No. 2, services of call men,	649 73	
Engine Company No. 4, services of call men,	679 25	
Engine Company No. 6, services of call men,	325 00	
Engine Company No. 8, services of call men,	524 59	
Engine Company No. 10, services of call men,	174 00	
Hose Company No. 3, services of call men,	4 79	
Hose Company No. 5, services of call men,	780 11	
Hose Company No. 7, services of call men,	323 66	
Hose Company No. 9, services of call men,	286 58	
Hose Company No. 11, services of call men,	332 62	
Hose Company No. 13, services of call men,	337 00	
Hook and Ladder Company No. 1, services of call men,	286 37	
Hook and Ladder Company No. 2, services of call men,	796 55	
Hook and Ladder Company No. 3, services of call men,	230 00	
Truck Company No. 4, services of call men,	746 67	
Chemical Company A, services of call men,	333 00	
		$89,584 40
Amount carried forward,		$94,284 40

Amount brought forward,		$94,284 40

MISCELLANEOUS.

H. C. Puffer Co., feed,	$2,684 44	
Franklin Harder, feed,	1,607 10	
Van Deusen & Foley, feed,	1,430 08	
V. E. Moore, feed and straw,	987 24	
L. A. Richards, hay,	684 98	
Wight-Thayer Co., hay,	82 03	
S. D. Viets Co., corn,	94	
Ira Johnson, exchange of horses,	2,170 00	
J. A. Sheckler, exchange of horses,	1,140 00	
H. W. McIntire, exchange of horses,	375 00	
Forbes & Wallace, harness supplies,	249 65	
Le Compte Mfg. Co., harness supplies,	72 00	
E. W. Loomis, harness supplies,	16 00	
A. Chisholm, harness supplies,	9 10	
Adolphus Phaneuf, harness supplies,	4 00	
Felix Bareille, harness supplies,	1 68	
Fisk Rubber Co., automobile supplies,	105 20	
Knox Automobile Co., automobile supplies,	42 05	
Springfield Automobile Co., automobile supplies,	9 20	
Geisel Automobile Co., automobile clock,	4 50	
S. Richard Carlisle, coal,	2,965 37	
Geo. C. Tait, coal,	301 57	
M. A. Maynard, coal,	29 63	
Pauper Department, wood,	10 00	
F. M. West Box Co., wood,	9 75	
Standard Oil Co. of New York, oil,	68 54	
O. R. Vesper, oil,	5 40	
Wm. R. Winn, oil,	3 80	
S. J. Cordner & Co., gasoline,	14 08	
New England Plumbing Supply Co., gasoline,	54	
Shining Light Mfg. Co., axle grease,	7 00	
Manhattan Rubber Mfg. Co., hose,	1,226 43	
M. H. Hart Co., hose,	117 76	
Maynard Rubber Corporation, hose,	80 44	
Amounts carried forward,	$16,515 50	$94,284 40

Amounts brought forward,	$16,515 50	$94,284 40
A. D. Wheeler, agent fire alarm boxes,	797 86	
Gamewell Fire Alarm Telephone Co., fire alarm boxes,	304 80	
Combination Ladder Co. and Rhode Island Coupling Co., ladders,	736 04	
Holyoke Valve and Hydrant Co., heating system,	300 00	
C. S. Knowles, batteries,	302 59	
Starr Electric Co., batteries,	285 00	
Success Supply Co., pipe and nozzles,	144 10	
J. B. Chapman & Co., hardware,	111 92	
George A. Graves & Sons, hardware,	98 86	
J. Douglas Law, hardware,	86 63	
C. C. Lewis Co., hardware,	34 20	
H. W. Stacy, hardware,	17 97	
W. T. Eaton, hardware,	15 26	
Mortimer J. Hall, hardware,	8 62	
Homer Foot & Co., hardware,	7 37	
C. C. Spencer, hardware,	1 23	
D. B. Montague, hardware,	25	
International Power Co., valves,	52 85	
Chapman Valve Mfg. Co., valves,	18 22	
P. P. Emory Mfg. Co., couplings,	13 25	
Sewers and Drains, castings,	7 23	
Springfield Foundry Co., castings,	3 56	
Crandall Packing Co., packing,	62	
E. S. Decker Lumber Co., lumber,	26 85	
Springfield Lumber Co., lumber,	22 31	
C. P. Chase & Co., lumber,	14 43	
Hampden Lumber Co., lumber,	10 67	
T. M. Walker & Co., paint and glass,	80 52	
J. C. Jones & Co., paint,	3 15	
Wadsworth, Howland & Co., paint,	1 30	
F. L. Hewes & Co., paint,	40	
Geo. R. Estabrook, bronze,	7 00	
D. W. Mellen & Co., enamel,	31 15	
Sutphen & Myer, glass,	10 58	
Amounts carried forward,	$20,072 29	$94,284 40

Amounts brought forward,	$20,072 29	$94,284 40
E. F. Leonard & Co., glass,	1 40	
Oliver S. Lawrence, electrical supplies,	98 00	
Cornelius Callahan Co., extinguishers, etc.,	142 90	
American Steel Wire Co., wire,	114 35	
John W. Russell, water motor,	80 00	
Munder Electric Co., lamps,	37 50	
O. H. Dickinson, baskets,	10 85	
Blair Mfg. Co., lawn mowers,	10 75	
Weston Electrical Inst. Co., voltmeters,	9 90	
Okonite Co., tape,	8 50	
Norcross-Cameron Co., jacks,	6 00	
American La France Fire Engine Co., springs,	4 20	
Bemis & Call Hardware and Tool Co., wrench,	1 50	
Cheney Bigelow Wire Works, screen,	1 20	
Buffinton Pharmacy Co., shells,	1 20	
Breck Rubber Co., supplies,	70	
Alling Rubber Co., cleaner, etc.,	55	
Bacon & Donnovan Engine Co., handles,	45	
Goodyear Rubber Co., rubber,	27	
C. H. Annable Lumber Co., weights,	25	
Meekins, Packard & Wheat, bedding, etc.,	462 97	
National Sponge and Chamois Co., sponges,	78 57	
Herbert I. Dallman & Co., brushes,	73 50	
J. I. Holcomb Mfg. Co., brushes,	42 50	
A. L. Altschul, brushes,	34 50	
Amsterdam Broom Co., brooms,	37 50	
Gardner Broom Co., brooms,	33 50	
Fred J. Richards, mops,	29 25	
G. H. Worcester & Co., dusters,	21 60	
Morgan Envelope Co. Div., supplies,	55 80	
Burgin Bros., coal bags,	18 37	
Marten-Diggs Fire Extinguisher Co., bottles,	8 00	
Charles Hall, globes,	1 84	
F. A. Keeney & Co., shovels,	70	
Smith & Murray, cloth,	45	
H. & J. Brewer, keg,	1 00	
Amounts carried forward,	$21,502 81	$94,284 40

Amounts brought forward,	$21,502 81	$94,284 40
Geo. Nye & Co., washing powder,	69 64	
Sturtevant-Merrick Co., Bon Ami,	57 15	
P. M. Frank Disinfecting Co., carbolene,	143 10	
Hampden Paint and Chemical Co., sulphuric acid,	54 74	
Houghton & Fraser, excelsior,	13 97	
Greene, The Druggist, alcohol,	90	
Springfield Waste Co., waste,	38 65	
John W. Wilder, lime,	5 32	
Burton E. Noble, cement,	1 40	
T. Shea, cement,	1 40	
Haynes & Co., caps, etc.,	262 75	
A. H. Finley & Co.; fire coats,	90 00	
Scovill Mfg. Co., buttons,	41 44	
Frank Cooper, ice,	21 00	
Burger & Taft, ice,	16 93	
T. F. Noonan, ice,	13 80	
Forest Park Ice Co., ice,	10 00	
Union Ice Co., ice,	10 00	
New London Ice Co., ice,	10 00	
D. Kaplan, ice,	10 00	
John D. Gill, ice,	9 25	
Silver Spring Ice Co., ice,	8 00	
D. J. Benoit, ice,	7 00	
P. E. Cleary & Co., building over chemical apparatus, etc.,	2,118 48	
R. E. Goodspeed, blacksmithing,	1 75	
C. J. Bailey, blacksmithing,	75	
P. H. Quinn, horse shoeing,	1,261 15	
A. E. Littlefield, horse shoeing,	733 70	
Henry W. Fitch, horse shoeing,	477 55	
B. M. Maroney, horse shoeing,	122 60	
M. E. Streeter, horse shoeing,	48 60	
W. F. Bailey, horse shoeing,	38 25	
James Healey, horse shoeing,	6 40	
E. D. Kelso, carpenter work,	788 82	
W. A. Newton & Co., carpenter work,	563 75	
Amounts carried forward,	$28,561 05	$94,284 40

Amounts brought forward,	$28,561 05	$94,284 40
Geo. W. Hall, eave trough,................	5 40	
Wm. J. Hyland, plumbing,................	210 32	
Chas. A. Ludden, plumbing,...............	185 00	
Loyal W. Dunlap, plumbing,...............	52 02	
J. A. Lynch, plumbing,...................	37 66	
Donahue Bros., plumbing,.................	20 28	
Oliver & Howland Co., piping,.............	89 82	
Wyckoff & Lloyd Co., piping,..............	82 20	
Geo. H. McClean, piping,.................	18 40	
Zedoc C. Clapp, piping,....................	3 27	
B. G. Bacon, plumbing,....................	1 30	
Bowman & Gregg, electrical work,..........	43 24	
Cooley & Brennan, mason work,...........	13 68	
Daniel C. Shea, mason work,...............	10 36	
Geo. N. Vaughan, concrete driveway,.......	345 98	
Robert Wilson, iron work,.................	267 37	
Paul Weidenmiller Grinding Co., grinding,..	25 82	
D. Schoonmaker, plating,..................	3 70	
City of Homes Mfg. Co., sharpening lawn mower, ...	1 50	
Edward S. Evans, mattress repairs,.........	295 86	
R. F. Hawkins Iron Works, engine repairs,..	130 55	
H. J. Pratt & Co., engine repairs,..........	11 69	
J. F. McCormick, roof repairs,............	39 63	
Alex. Grant & Son, roof repairs,...........	19 65	
E. A. Whipple & Sons, clock repairs,........	4 50	
Geo. W. Taylor, lock work,................	40	
Austin J. Pratt, wagon repairs,............	8 34	
Smith & Hubbell, wagon repairs,...........	5 00	
Reynolds & Co., labor,....................	71 00	
Water Works, water connections,..........	25 51	
Sewers and Drains, labor,.................	24 27	
George Foster and others, extinguishing fires,	39 90	
J. H. Collins, watching at fires,............	6 45	
O. Ranger, watching at fires,..............	3 60	
J. Feltham, watching at fires,..............	3 60	
Amounts carried forward,	$30,668 32	$94,284 40

Amounts brought forward,	$30,668 32	$94,284 40
C. L. Perkins, watching at fires,	2 70	
J. F. Matthews, watching at fires,	2 10	
A. C. Perkins, line work,	306 00	
E. J. Melendy & Co., painting,	240 00	
Buchholz Sign Co., lettering,	102 95	
Old Corner Decorating Co., papering,	41 00	
J. F. Whipple, graining,	18 00	
H. Ford, bronzing,	9 72	
Geo. A. Murray, decorating engine house,	10 00	
Sundry persons, washing,	217 00	
Chas. A. Higgins, laundry,	200 38	
Wm. H. Holmes, laundry,	150 70	
United Electric Light Co., electric lights,	808 06	
New England Telephone and Telegraph Co., service,	90 46	
Springfield Gas Light Co., gas,	4 39	
M. E. Chapin, veterinary services,	390 00	
Harry Lukes, veterinary services,	8 50	
W. H. Daggett, cash paid,	167 83	
A. P. Wade, pension,	92 21	
W. H. Harper, pension,	92 21	
Springfield Printing and Binding Co., printing,	309 80	
Springfield Union, advertising,	1 50	
Daily News Publishing Co., advertising,	1 00	
Republican Co., advertising,	50	
H. P. Ferre, motometer,	34 20	
H. Rude Co., stationery,	5 65	
Annie L. Lucas, telephone index,	4 00	
Price & Lee Co., directory,	4 00	
Hall & Howes, board of horse,	48 58	
William Fuller & Son, board of horse,	26 25	
F. E. Webb, board of horse,	3 00	
John Collins, livery,	9 50	
E. A. Woodward, livery,	6 00	
Warren & Hubbard, expressage,	20 65	
Amounts carried forward,	$34,097 16	$94,284 40

Amounts brought forward,	$34,097 16	$94,284 40
L. H. Richards, cartage,	20 15	
Henry A. Day, expressage,	5 20	
E. W. Oatley & Co., trucking,	5 00	
		34,127 51
Total payments,		$128,411 91
To contingent account,		51 60
		$128,463 51

Cr.

By appropriation,	$128,000 00	
Collector: sundry bills collected,	281 00	
W. H. Daggett, deputy chief: horse, old junk, etc., sold,	182 51	
		$128,463 51

Fire Department—Additions to Apparatus and Houses. (Not Completed.)

Alexander Perrault, account contract Oakland Street engine house,	$5,238 40	
D. W. Mellen, account contract Indian Orchard engine house,	4,300 00	
Combination Ladder Co. and Rhode Island Coupling Co., aerial hook and ladder truck,	3,950 00	
Knox Automobile Co., motor car for Flying Squadron,	2,900 00	
Springfield Union, advertising,	13 05	
Republican Co., advertising,	9 80	
Daily News Publishing Co., advertising,	8 70	
Springfield Homestead Newspaper Co., advertising,	2 40	
Total payments,	$16,422 35	
Balance unexpended,	27,313 65	
		$43,736 00

Cr.

By appropriations,	$43,736 00	
		$43,736 00

Forestry.

Pay roll,	$7,076 30
W. F. Gale, City Forester,	1,300 00
W. F. Gale, cash paid,	43 44
H. O. Puffer Co., fertilizer,	293 45
J. W. Adams & Co., trees,	126 30
Harlan P. Kelsey, shrubs,	90 41
J. Woodward Manning, shrubs,	46 87
Frederick W. Kelsey, shrubs,	22 50
Springfield Foundry Co., sign posts,	460 00
Harry W. Stacy, sign posts,	7 65
Stillman B. Call, posts,	60
Baltimore Enamel & Novelty Co., street signs,	320 94
P. H. Healey, street signs,	30 45
C. O. George, sign,	5 50
Wilcox, Crittenden & Co., sign holders,	228 93
O. C. Alderman, hardware,	166 48
Homer Foot & Co., hardware,	23 30
Patterson Bros., hardware,	13 02
J. Douglas Law, hardware,	59
John S. Tilley, ladder locks,	6 20
P. P. Emory Mfg. Co., castings,	4 58
Springfield Waste Co., waste,	2 97
J. F. Carman, brooms,	10 88
Meekins, Packard & Wheat, dippers,	2 96
Smith & Murray, dippers,	2 01
C. E. Brown & Co., cups,	1 58
A. P. Chapin, glass,	1 10
Hitchcock Supply Co., handles,	60
Springfield Lumber Co., lumber,	207 41
O. H. Dickinson, chemicals,	193 50
Chas. P. Alden & Son, chemicals,	122 72
T. M. Walker & Co., paint,	46 16
Amount carried forward,	$10,859 40

Amount brought forward,	$10,859	40
Waterproof Paint Co., paint,	6	25
Pauper Department, paint,	2	25
E. C. Ware, hose,	210	00
Goodyear Rubber Store, hose,	172	92
Bacon & Donnovan Engine Co., washers, etc.,	27	36
V. E. Moore, feed,	193	69
S. D. Viets Co., feed,	148	99
T. J. Regnier, harness supplies,	14	00
Forbes & Wallace, harness supplies,	6	00
Akin & Co., harness supplies,	3	85
A. Chisholm, harness supplies,	1	50
Schoonmaker & Son, oil,	33	87
Hisgen Bros., oil,	26	10
William R. Winn, oil,	1	20
J. P. Chapman & Co., repairs,	86	17
P. E. Cleary & Co., repairs,	31	10
J. Stuart Kirkham, repairs,	2	00
Geo. W. Hall, repairs,	1	60
H. Ford, filing saws,	79	62
L. S. Wood, carpenter work,	65	56
Springfield Gas Light Co., piping,	21	06
Ernest G. Bates, plumbing,	13	70
Wyckoff & Lloyd Co., plumbing,	11	43
Frank Demers, painting,	18	43
Bowman & Gregg, electrical work,	1	55
O. J. Bailey, blacksmithing,	40	40
John Swaine, blacksmithing,	5	40
N. L. Byron, blacksmithing,	5	30
Jos. Dumontier, blacksmithing,	4	25
P. H. Quinn, horse shoeing,	37	70
Daniel D. Moriarty, Adm. settlement of P. J. Moriarty claim for accident resulting in death,	173	95
Water Works, office rent,	60	00
New England Telephone and Telegraph Co., services,	37	44
Springfield Street Railway Co., tickets,	25	00
Amount carried forward,	$12,429	04

Amount brought forward,	$12,429 04	
City Engineering Department, services,	21 27	
Emerson Laboratory, testimony,	10 00	
Mercy Hospital, treatment,	2 00	
United Electric Light Co., lights,	1 39	
Springfield Printing and Binding Co., printing,	45 06	
D. J. Bordeaux, photographs,	33 75	
Chas. A. L. Wright, photographs,	4 35	
C. E. Perkins, photograph,	1 50	
James McKinnon Co., half-tones,	3 50	
J. G. Lutz, letter heads,	7 50	
H. Rude Co., paper,	4 40	
Henry R. Johnson, books,	3 68	
Republican Co., advertising,	70	
Springfield Union, advertising,	70	
Harry Lukes, veterinary services,	1 25	
Henry A. Day, cartage,	7 54	
M. J. Manning, cartage,	1 00	
Seymour Stables, livery,	2 00	
Boston & Springfield Despatch, express,	1 55	
Total payments,	$12,582 18	
To contingent account,	101 40	
		$12,683 58

Cr.

By appropriation,	$12,000 00	
From Collector: sundry bills for labor and material,	683 58	
		$12,683 58

Funded Debt.

Forty 3½% refunding water bonds, Nos. 381 to 420 inclusive, issued in 1903; paid April 1, 1906,	$40,000 00	
Registered 4% sewer bonds, Nos. 2, 3, 23, 39, 40, 41, 102, 125, 129, 131, 144, 149, 156, 157, 158, 159, 164, 166, 925, issued July 1, 1901; paid July 1, 1906,	70,000 00	
Registered 4% school bond, No. 509, issued July 1, 1898; paid July 1, 1906,	4,500 00	
Registered 3½% miscellaneous loan bonds, Nos. 621 and 885, issued July 1, 1898; paid July 1, 1906,	4,000 00	
Registered 3½% school bonds, Nos. 644, 872, 884, issued July 1, 1898; paid July 1, 1906,	8,700 00	
Registered 3½% sewer bond, No. 845, issued Aug. 1, 1904; paid Aug. 1, 1906,	2,000 00	
Registered 3½% fire department loan bond, No. 709, issued Sept. 1, 1901; paid Sept. 1, 1906,	4,000 00	
Registered 3½% sewer bond, No. 720, issued Sept. 1, 1901; paid Sept. 1, 1906,	1,000 00	
Total payment on funded debt,		$134,200 00

Cr.

By appropriation,	$24,200 00	
Commissioners of the Sinking Funds to meet 3½% refunding Water bonds, due April 1, 1906,	40,000 00	
Commissioners of the Sinking Funds to meet 4% sewer loan bonds, due July 1, 1906,	70,000 00	
		$134,200 00

Highways and Bridges.

Superintendent's pay roll from December 3, 1905 to December 2, 1906,	$81,073 04	
		$81,073 04

MISCELLANEOUS.

A. A. Adams, Superintendent,	$2,300 00	
A. A. Adams, cash paid,	70 45	
Boston & Albany Railroad Co., freight,	5,900 54	
N. Y., N. H. & H. R. R. Co., freight,	1,191 45	
Boston & Maine Railroad Co., freight,	110 15	
John S. Lane & Son, macadam,	4,461 07	
Connecticut Trap Rock Quarries, macadam,	735 96	
U. S. Wood Preserving Co., paving blocks,	1,322 25	
Johnsonburg Vitrified Brick Co., paving blocks,	138 84	
N. Y. Brick & Paving Co., brick,	965 11	
Standard Brick Co., brick,	132 40	
Walks and Curbing, brick,	131 17	
Warren Bros. Co., asphalt,	89 76	
Sewers and Drains, pipe,	290 33	
S. D. Viets Co., pipe,	532 76	
Springfield Gas Light Co., pipe,	14 05	
H. C. Puffer Co., cement,	1,504 78	
Springfield Waste Co., waste	114 12	
Waltham Watch Tool Co., cinders,	5 20	
Davitt Iron Foundry, castings,	528 21	
Springfield Foundry Co., castings,	91 77	
Concord Foundry & Machine Co., castings,	153 30	
J. B. Chapman & Co., castings,	2 58	
Oliver & Howland Co., fittings,	178 71	
John L. Smith, fittings,	21 25	
Lunkenheimer Co., fittings,	2 70	
Homer Foot & Co., hardware,	298 67	
Geo. A. Graves & Sons, hardware,	192 28	
J. Douglas Law, hardware,	140 41	
Chas. C. Lewis Co., hardware,	59 58	
Amounts carried forward,	$21,679 85	$81,073 04

Amounts brought forward,	$21,679 85	$81,073 04
W. T. Eaton, hardware,....................	10 16	
Simpson Clark, hardware,..................	1 30	
Leonard Clark & Son, hardware,............	1 00	
C. C. Spencer, hardware,..................	75	
Springfield Lumber Co., lumber,............	443 98	
Hampden Lumber Co., lumber,.............	231 42	
E. S. Decker Lumber Co., lumber,..........	191 48	
Geo. M. Burnham, lumber,..................	181 74	
C. P. Chase & Co., lumber,.................	104 73	
E. A. Blodgett Lumber Co., lumber,........	92 76	
City Lumber Co., lumber,..................	18 31	
H. F. Cady, plank,.........................	80 00	
J. L. Rice, posts,...........................	20 00	
R. D. Butler, posts,........................	12 50	
C. A. Bartholomew, posts,..................	3 20	
James Gerrard, gravel,.....................	139 50	
Wight & Goodwin, gravel,..................	99 60	
R. P. Richards, gravel,.....................	77 25	
Estate of A. W. Lincoln, gravel,............	70 50	
E. &. P. Fitzgerald, gravel,.................	70 20	
Leroy Warner, gravel,......................	65 10	
John Rochford, gravel,.....................	52 44	
T. Shea, gravel,............................	37 50	
Elbert Keyes, gravel,.......................	24 60	
W. S. Colwell, gravel,......................	20 10	
Estate of Theo. F. Breck, gravel,............	18 72	
L. W. Emery, gravel,.......................	15 12	
J. W. Hayden, gravel,......................	13 08	
Rev. J. J. O'Keefe, gravel,..................	9 45	
Edwin King, gravel,........................	9 24	
E. H. Keith, gravel,........................	3 84	
George Washington, gravel,................	3 48	
Mrs. Anna Griffin, gravel,..................	2 55	
S. Richard Carlisle, coal,..................	1,570 41	
Wight-Thayer Co., coal,....................	194 25	
Moses Ehrlich Coal Co., coal,..............	66 20	
M. S. Converse Co., coal,..................	26 10	
Amounts carried forward,	$25,662 41	$81,073 04

Amounts brought forward,	$25,662 41	$81,073 04
T. J. Sullivan, coal,	14 75	
W. S. Miller, wood,	28 34	
V. E. Moore, feed,	479 71	
Franklin Harder, feed,	136 45	
Van Deusen & Foley, feed,	126 07	
L. A. Richards, hay,	16 27	
John Wilder Estate, oats,	15 26	
More & Marston, oatmeal,	15 00	
Borne Scrymser Co., oil,	92 02	
S. J. Cordner Co., oil,	83 69	
Brooks Oil Co., oil,	52 75	
H. H. Colwell & Co., oil,	3 42	
Parker & Phaneuf, oil,	2 15	
N. E. Roller Grate Co., oil,	1 50	
Gilbert & Barker Mfg. Co., gasoline,	46 08	
T. M. Walker & Co., paint,	10 45	
F. L. Hewes & Co., paint,	5 10	
William R. Winn, paint,	3 45	
D. W. Mellen & Co., varnish,	4 90	
Buffalo Steam Roller Co., road scarifier, etc.,	672 84	
J. L. & H. K. Potter, street sweeper, etc.,	625 00	
Barrett Mfg. Co., tarvia,	241 43	
Harold L. Bond Co., tools,	148 50	
Harry W. Stacy, tools,	39 01	
Chapman Valve Mfg. Co., tools,	14 29	
Belcher & Taylor Agricultural Tool Co., tools,	8 91	
Anchor Post Iron Works, fence,	106 00	
Walsh Boiler & Iron Works, fence,	44 00	
Chase & Cooledge Co., gear shields,	54 43	
N. S. Beebe, street scrapers,	40 50	
Hitchcock Supply Co., valves, etc.,	41 34	
Detroit Lubricator Co., valves,	4 20	
Perrin, Seamans & Co., gaskets, etc.,	24 80	
Sherwood Mfg. Co., cups,	16 50	
Quimby & Co., cans,	15 05	
Reversible Tube Cleaner Co., cleaners,	5 75	
Eldredge Electric Mfg. Co., cells,	2 50	
Amounts carried forward,	$28,904 82	$81,073 04

Amounts brought forward,	$28,904 82	$81,073 04
Springfield Metal Body Co., celluloid,	2 00	
Norcross-Cameron Co., batteries,	1 60	
Craig & Craig Co., cans,	1 00	
D. B. Montague, fire pot,	90	
Merrell T. White, exchange of automobiles,	506 60	
Fisk Rubber Co., automobile supplies,	86 10	
Meekins, Packard & Wheat, furniture,	103 53	
Maynard Rubber Corporation, hose,	88 70	
Forbes & Wallace, linoleum,	57 36	
New England Broom Co., brooms,	131 25	
Chas. Hvrass & Co., brooms,	42 00	
L. J. Ball Co., brooms,	4 00	
Chas. Hall, lantern supplies,	92 00	
C. O. George, signs,	25 00	
Burgin Bros., duck,	19 38	
Carter & Cooley, towels,	3 00	
Hannan & Finton, glasses,	60	
A. Chisholm, harness supplies,	53 95	
S. J. Wright, harness supplies,	46 00	
Besse-Carpenter Co., clothing,	13 13	
Cutler & Porter, boots,	8 86	
Haynes & Co., hats,	6 75	
P. H. Quinn, horse shoeing,	226 45	
James Healey, horse shoeing,	59 75	
Henry W. Fitch, horse shoeing,	29 90	
Richard McCarthy, horse shoeing,	7 25	
W. D. Spencer, horse shoeing,	4 00	
Morgan Bros, blacksmithing,	187 50	
James Potvin, blacksmithing,	158 84	
C. J. Bailey, blacksmithing,	131 43	
Charles E. Jennings, blacksmithing,	40 55	
John Swaine, blacksmithing,	14 87	
M. E. Streeter, blacksmithing,	7 60	
G. W. Clampit, blacksmithing,	4 75	
Geo. Mackintosh, blacksmithing,	3 25	
James Flynn, blacksmithing,	2 15	
W. F. Bailey, blacksmithing,	55	
Amounts carried forward,	$31,077 37	$81,073 04

Amounts brought forward,	$31,077 37	$81,073 04
Town of Ludlow, cost of painting bridge,....	474 47	
Highland Paint & Wall Paper Co., painting,.	96 88	
W. H. Falvey, mason work,................	84 75	
L. S. Wood, carpenter work,................	238 11	
O. C. Marshall, wood work, etc.,............	61 74	
Fred A. Bicknell, piping,..................	42 44	
Wyckoff & Lloyd Co., piping,..............	13 11	
A. D. Stone & Co., stone cutting,...........	25 41	
United Drop Forging Co., forging,..........	24 00	
John C. O'Donald, filing saws,..............	8 70	
Paul Weidenmiller Grinding Co., grinding,..	1 90	
R. W. Rice Coal Co., weighing,.............	80	
C. S. Reed, weighing,......................	50	
Boston Asphalt Co., asphalt repairs,........	356 74	
M. J. Dunn & Co., wagon repairs,...........	196 80	
Smith & Hubbell, wagon repairs,...........	48 35	
Geisel Automobile Co., auto. repairs,........	88 16	
E. R. Clark Automobile Co., auto. repairs,...	72 92	
International Automobile Vehicle Fire Co., auto. repairs, ...	10 00	
Geo. N. Holden, bicycle repairs,............	12 70	
M. J. Brunton & Son, roof repairs,..........	174 24	
Robert McCleary, roof repairs,..............	6 00	
Southern New England Paving Co., repairs,.	10 32	
Forestry, taking down trees,................	123 66	
T. B. Gilbert, labor,.......................	16 20	
Robert Wilson, labor,......................	4 99	
Carter Electric Co., labor,.................	1 75	
Morgan, Crossman & Co., labor,............	1 49	
John W. Russell, labor,....................	1 00	
E. H. Holden, veterinary services,..........	116 20	
W. J. Glasgow, veterinary services,.........	12 00	
P. R. Hadlock, clipping horses,.............	14 50	
Water Works, rent and labor,..............	331 72	
New England Telephone and Telegraph Co., services, ...	110 81	
Postal Telegraph-Cable Co., messages,.......	6 47	
Amounts carried forward,	$33,867 20	$81,073 04

Amounts brought forward,	$33,867 20	$81,073 04
United Electric Light Co., lights,	55 62	
City Engineering Department, services,	83 19	
Smith & Dexter, insurance,	90 00	
Cone & Sherwood, insurance,	30 00	
Wilbur H. Packard, car fares,	16 70	
M. J. Downey, car fares,	15 85	
A. H. Woodward, cash paid,	9 00	
E. G. Barnes, cash paid,	1 45	
C. E. Brown & Co., rent Lyman street yard,	567 71	
Scavenger Department, rent barn,	48 00	
Indian Orchard Co., rent barn,	25 00	
Theodore E. Hamilton, rent barn,	21 00	
Marie Knappe, rent barn,	14 00	
Board of Health, rent cart,	35 00	
Hall & Howes, board of horses,	24 66	
Annette Pease, extension of Marion street,	342 00	
Harry G. Webster, extension of Marion street,	200 00	
Abigail B. Maynard, extension of Marion street,	50 00	
Jonathan Barnes, Trustee for Geo. N. Vaughan, balance due on Buckland device,	19 50	
Heirs Laura A. Barber, damages relocating Wilbraham Road,	10 00	
Chas. J. Spaid, M.D., professional services,	8 00	
Frederick S. Ward, professional services,	2 00	
Springfield Printing and Binding Co., printing,	234 40	
Springfield Union, advertising,	22 20	
Republican Co., advertising,	12 50	
Daily News Publishing Co., advertising,	11 88	
Springfield Homestead Newspaper Co., advertising,	1 20	
L. C. Smith & Bros., typewriter,	55 75	
Beck Duplicator Co., duplicator,	9 50	
H. P. Ferre, stamps,	3 50	
H. P. Gaines, stamp,	1 80	
Amounts carried forward,	$35,888 61	$81,073 04

Amounts brought forward,	$35,888 61	$81,073 04
Henry R. Johnson, stationery,	49 32	
J. G. Lutz, letter heads,	9 00	
Rochester Carbon Mfg. Co., carbon paper,	3 50	
Baker-Vawter Co., binder and sheets,	27 56	
A. H. Bartlett, pads,	3 15	
Eugene Dietzgen Co., erasers,	2 23	
H. Rude Co., pencils,	2 50	
McMillan Book Co., index,	1 60	
Price & Lee Co., directory,	4 00	
E. L. Powers Co., subscription,	1 00	
"Sanitas" Co., disinfectant,	5 80	
Solshine Mfg. Co., harness oil,	3 75	
E. A. Nelson, powder,	2 05	
Albert E. Lerche, soda,	1 36	
Merriam's Pharmacy, medicine,	40	
D. Kaplan, ice,	6 85	
Louis Cooley, use of land,	50 00	
A. S. Dwelly Est., use of land,	50 00	
Lizzie M. Foster, use of land,	10 00	
Royce's Laundry, laundry,	7 17	
V. M. Frost, livery,	21 50	
Seymour Stables, livery,	4 00	
Geo. H. Gould, livery,	4 00	
Warren & Hubbard, expressage,	9 60	
E. W. Oatley & Co., cartage,	2 00	
		$36,170 95
Total expenditure Maintenance Dept.,		$117,243 99

MACADAM AND GRAVEL DEPARTMENT.

Superintendent's pay roll from April 7, 1906, to December 1, 1906,	$19,960 22	
		$19,960 22

MISCELLANEOUS.

John S. Lane & Son, macadam,	$5,940 43	
Connecticut Trap Rock Quarries, macadam,	2,844 03	
N. Y., N. H. & H. R. R. Co., freight,	4,334 31	
Amounts carried forward,	$13,118 77	$19,960 22

Amounts brought forward,	$13,118 77	$19,960 22
Boston & Albany Railroad Co., freight,	1,677 60	
A. Dickinson, curbing,	601 20	
John W. Rochford, concrete walks,	349 49	
James Gerrard, gravel,	107 10	
Wight & Goodwin, gravel,	36 36	
Leroy Warner, gravel,	33 90	
O. G. Noel, sand,	13 20	
Davitt Iron Foundry, castings,	95 77	
Springfield Foundry Co., castings,	52 74	
H. C. Puffer Co., cement,	64 34	
Standard Brick Co., brick,	46 30	
Sewers and Drains, brick,	15 52	
S. D. Viets Co., pipe,	44 10	
Springfield Lumber Co., lumber,	39 96	
City Engineering Department, services,	154 22	
Geo. Marquette, car fares,	3 30	
John Scanlon, car fares,	3 15	
John Long, car fares,	2 95	
		$16,459 97
Total expenditure of Macadam and Gravel Department,		$36,420 19

PAVING DEPARTMENT.

Superintendent's pay roll from May 19, 1906, to November 24, 1906,	$16,514 59	
		$16,514 59

MISCELLANEOUS.

U. S. Wood Preserving Co., paving blocks,	$11,489 90	
City of Holyoke, paving blocks,	676 08	
Johnsonburg Vitrified Brick Co., paving blocks,	283 77	
Warren Bros. Co., bitulithic paving,	10,039 40	
John S. Lane & Son, macadam,	2,101 00	
Boston & Albany Railroad Co., freight,	3,075 97	
Amounts carried forward,	$27,666 12	$16,514 59

Amounts brought forward,	$27,666 12	$16,514 59
N. Y., N. H. & H. R. R. Co., freight,	755 57	
H. O. Puffer Co., cement,	2,501 52	
Walks and Curbing, curbing,	340 32	
Davitt Iron Foundry, castings,	338 94	
Standard Brick Co., brick,	323 30	
S. D. Viets Co., pipe,	96 64	
E. S. Decker Lumber Co., pipe,	3 50	
T. Shea, sand,	138 25	
C. G. Noel, sand,	24 45	
J. W. Rochford, pitch,	56 70	
M. A. Maynard, coal,	185 08	
Springfield Gas Light Co., coke,	21 80	
William R. Winn, oil,	50 36	
Sewers and Drains, supplies,	12 92	
C. A. Bartholomew, lumber,	93 00	
C. P. Chase & Co., lumber,	11 54	
Springfield Lumber Co., lumber,	7 30	
Maynard Rubber Corporation, hose,	16 37	
C. C. Lewis Co., belt dressing,	6 00	
Fisk Mfg. Co., barrels,	5 90	
Burgin Bros., covers,	5 50	
Goodyear Rubber Store, scrapers,	4 50	
H. W. Stacy, greaser,	4 15	
J. F. Carman, hogshead,	2 00	
Geo. A. Graves & Sons, hardware,	1 00	
Homer Foot & Co., hardware,	60	
Albert E. Lerche, acid,	55	
Hassam Paving Co., patent rights,	644 80	
City Engineering Department, services,	287 71	
Board of Supervisors of Highways & Bridges, expenses investigating paving,	99 09	
Wm. T. Gould, cash expenses,	15 44	
Public Parks, use steam roller,	165 00	
A. D. Stone & Co., stone cutting,	125 73	
T. B. Gilbert, carpenter work,	6 74	
Walsh Boiler & Iron Works, repairs,	6.53	
Amounts carried forward,	$34,024 92	$16,514 59

Amounts brought forward,	$34,024 92	$16,514 59
A. E. Littlefield, blacksmithing,	4 15	
Geo. H. Gould, livery,	31 00	
		34,060 07
Total expenditure Paving Dept.,		$50,574 66
Total expenditure Macadam and Gravel Department,		36,420 19
Total expenditure Maintenance Dept.,		117,243 99
Total payments,		$204,238 84
To contingent account,		2,965 62
		$207,204 46

Cr.

By appropriation,	$160,000 00	
Springfield Street Railway Co., corporation and excise tax for 1905,	33,278 14	
Chas. A. Frazer, Collector: labor and material collected from sundry persons and departments,	13,926 32	
		$207,204 46

Interest.

FUNDED DEBT.

First National Bank, Boston, paid interest coupons on water bonds,	$21,875 00	
First National Bank, Boston, paid interest coupons on school bonds,	13,125 00	
First National Bank, Boston, paid interest coupons on sewer bonds,	60 00	
Registered owners of bonds and notes, interest paid on the following issues:—		
School bonds,	34,293 50	
Sewer bonds,	10,290 00	
Park bonds,	4,375 00	
Improvement bonds,	1,225 00	
Fire Department bonds,	840 00	
Miscellaneous bonds,	420 00	
		$86,503 50

Amount brought forward,		$86,503 50
TEMPORARY LOANS (In anticipation of taxes).		
Blake Brothers & Co., Boston, discount on $200,000, borrowed February 16, 1906, paid November 5, 1906, at 4.14% per annum,	$6,025 93	
Springfield Institution for Savings, interest on $50,000, borrowed June 11, 1906, paid November 8, 1906, at 4½% per annum,..	924 66	
American Writing Paper Co., interest on $50,000, borrowed June 26, 1906, paid November 8, 1906, at 4½% per annum,..	832 20	
American Writing Paper Co., interest on $150,000, borrowed August 2, 1906, paid November 9, 1906, at 4½% per annum,..	1,830 78	
Mass. Mutual Life Insurance Co., interest on $100,000, borrowed June 26, 1906, paid November 9, 1906, at 4½% per annum,..	1,590 41	
L. W. Ladd, interest on $10,000, borrowed September 11, 1906, paid November 10, 1906, at 4½% per annum,	73 98	
E. H. Barney, interest on $15,000, borrowed September 11, 1906, paid November 1, 1906, at 4½% per annum,	94 32	
		11,372 28
MISCELLANEOUS.		
Court Square Extension: interest on average of daily balance of account during the year,	$531 68	
Edward C. Brownell, interest on sidewalk bill refunded,	5 63	
		537 31
Total expenditure,		$98,413 09
To contingencies,		1,881 81
		$100,294 90

Cr.

By appropriation,	$63,000 00	
Water Works: by transfer to pay interest on bonds,	21,875 00	
City Treasurer: interest received on daily bank balances,	4,406 30	
City Treasurer: accrued interest on school bonds sold,	1,164 30	
Collector: interest on overdue taxes,	9,433 43	
Collector: interest on department bills,	221 09	
County tax: interest on advance payment,	18 89	
Collector: interest on daily balances,	175 89	
		$100,294 90

Isolation Hospital.

Pauper Department, heating,	$1,312 49
United Electric Light Co., lighting,	61 89
Minnie Bacon, nurse,	600 00
Miss R. H. Bailey, nurse,	241 33
Mrs. Sophia Anderson, nurse,	158 67
Elizabeth Spencer, nurse,	140 98
Miss Chaffee, nurse,	90 00
Miss Senna, nurse,	84 00
Margaret Riley, nurse,	81 00
Miss Mary Bacon, nurse,	76 67
Miss Caroline Woodard, nurse,	63 00
Mrs. Sullivan, nurse,	18 00
Mary Fletcher, cook,	305 22
Mrs. Jennie White, housekeeper,	243 00
Mary Grady, ward maid,	80 00
Mary Beringer, labor,	21 50
Rood & Woodbury, groceries,	379 88
Benton Street Market, groceries,	305 07
L. L. Stone, groceries,	200 49
Goodwin & Bigelow, groceries,	74 93
Amount carried forward,	$4,538 12

Amount brought forward,	$4,538	12
B. C. Bacon, provisions,..................	51	58
Geo. Nye & Co., provisions,................	17	61
F. A. Warner, milk,.......................	195	25
Springfield Pure Water Co., use of filter,...	9	00
M. A. Maynard, coal,.....................	38	75
L. S. Brown, charcoal,.....................	3	25
F. N. Wheeler & Co., medicine,............	220	78
Mooney's Pharmacy, medicine,.............	78	23
T. Flanaghan, brandy, etc.,................	38	80
Wm. M. Williams, bandages,...............	4	50
Smith & Murray, furnishings,..............	149	73
Meekins, Packard & Wheat, furnishings,....	133	99
Sampson-Soch Co., depressors,.............	2	50
Gilbert & Barker Mfg. Co., boiler,..........	29	65
C. H. Annable Lumber Co., boiler stand,....	15	00
Springfield Gas Light Co., range, etc.,......	20	00
J. Stuart Kirkham, grate,..................	10	50
Mortimer J. Hall, hardware,...............	14	24
Hampden Lumber Co., lumber,.............		82
R. S. Frost, laundry,......................	446	96
Bowman & Gregg, electrical work,..........	98	28
P. C. Fitzpatrick, electrical work,..........	2	81
Jos. W. Hayden, carpenter work,...........	35	03
Geo. Smith & Co., piping,..................	35	00
Ernest G. Bates, plumbing,................	2	40
Austin J. Pratt, plumbing,.................		90
Patrick Fitzgerald, labor,..................	17	50
Ed. M. Van Ness, labor,...................	17	00
B. G. Bacon, repairs,......................	15	00
N. S. Beebe, repairs,......................	11	02
J. Lyman Griswold, repairs,...............	2	00
Geo. W. Taylor, lock work,................	1	75
Geo. R. Estabrook, tin work,...............	1	50
J. W. Nichols, cleaning clock,..............	1	00
East Longmeadow, aid rendered,...........	77	11
City of Worcester, aid rendered,...........	30	14
Amount carried forward,	$6,367	70

Amount brought forward,	$6,367 70	
E. J. Pinney, subscription,	8 00	
H. A. Brooks, subscription,	4 50	
New England Telephone and Telegraph Co., mileage,	1 02	
Total payments,	$6,381 22	
To contingent account,	40 36	
		$6,421 58

Cr.

By appropriation,	$4,000 00	
Transferred from contingencies,	600 00	
Transferred from Board of Health,	475 00	
Collector: board and care of sundry persons at hospital,	1,346 58	
		$6,421 58

Law Department.

E. W. Beattie, Jr., City Solicitor,	$2,400 00
E. W. Beattie, Jr., cash paid for legal expenses,	363 35
T. B. Warren, looking up titles,	75 60
E. L. Raymond, stenographer,	15 50
City Engineering Department, services,	4 50
Orrilus W. Studley, summoning witness,	2 03
D. J. Bordeaux, photographs,	5 50
Republican Co., advertising,	4 80
Springfield Printing and Binding Co., envelopes,	2 75
New England Telephone and Telegraph Co., services,	2 00
E. T. Tifft, stamps,	30
Albert A. Ball, witness in Burnette case,	10 00
William H. Dexter, witness in Burnette case,	10 00
Geo. W. Fairfield, witness in Burnette case,	10 00
Frank E. Fuller, witness in Burnette case,	10 00
Edward A. Hall, witness in Burnette case,	10 00
Amount carried forward,	$2,926 33

Amount brought forward,	$2,926 33	
Chas. M. Mather, witness in Burnette case,..	10 00	
Frank W. Warner, witness in Burnette case,.	10 00	
J. A. Sheckler, witness fee,................	1 60	
Total payments, ...	$2,947 93	
To contingencies, ...	652 07	
		$3,600 00

Cr.

By appropriation, ...	$3,600 00	
		$3,600 00

Land West Street.

George Nye, land, north side of West street,.	$16,000 00	
Total payments, ...		$16,000 00

Cr.

By appropriation, ...	$16,000 00	
		$16,000 00

Lighting Streets.

United Electric Light Co., street lighting and changes, ...	$75,225 04
W. J. Converse, Superintendent............	1,400 00
W. J. Converse, cash paid,.................	21 63
Cortis F. Searle, labor,....................	567 75
H. H. Prouty, labor,........................	414 64
James Elmer, labor,..........................	105 89
George H. Reed, labor,......................	82 00
George H. Root, labor,......................	16 63
Arthur Calkins, labor,......................	9 63
Fisk Rubber Co., automobile supplies, etc.,...	314 61
Knox Automobile Co., automobile supplies,..	169 62
Bowman & Gregg, batteries,................	4 30
P. C. Fitzpatrick, batteries,................	2 00
Thresher Bros., poles,......................	290 00
Geo. W. Loomis, poles,......................	66 00
Amount carried forward,	$78,689 74

Amount brought forward,	$78,689	74
T. H. Brady, goosenecks,	180	20
Oneida Community, Ltd., chains,	112	90
S. J. Cordner Co., gasoline,	173	05
M. M. Kendall & Co., coal,	7	75
Pauper Dept., wood,	4	00
C. H. Annable Lumber Co., lumber,	134	81
City Lumber Co., lumber,	4	92
C. P. Chase & Co., lumber,	2	48
Springfield Foundry Co., castings,	112	00
Leonard Clark & Son, furnace,	68	57
Homer Foot & Co., hardware,	36	92
J. Stuart Kirkham, hardware,	14	05
J. Douglas Law, hardware,		75
J. C. Jones & Co., paint,	14	67
J. F. Whitaker, cement,	14	50
C. E. & F. A. Abbe, cement,	3	20
Highways and Bridges, macadam	6	80
F. S. Valentine, sand,	7	50
Fred T. Ley & Co., sand,	1	00
V. E. Moore, oats,	56	74
A. W. Charter, feed,	20	10
C. C. Blackman, hay,	18	90
A. Chisholm, harness supplies,	10	30
Goodyear Rubber Store, supplies,	1	10
E. E. Manser, carpenter work,	162	37
E. C. Knapp & Chas. E. Gray, carpenter work,	52	20
F. G. Wise, varnishing,	15	00
J. H. Hebert, varnishing,	12	00
H. Ford, machine work,	32	87
W. B. Spencer, horse shoeing,	18	25
Jos. Dumontier, blacksmithing,	13	55
John Swaine, blacksmithing,	8	07
F. E. Ladd, repairs,	13	50
Springfield Printing and Binding Co., printing,	57	84
C. B. Haskell, typewriting,	8	38
W. A. Brown, plans,	5	50
Amount carried forward,	$80,096	48

Amount brought forward,	$80,096 48	
Bristol Co., charts,	73 50	
J. G. Lutz, letter heads,	47 92	
Henry R. Johnson, stationery,	2 15	
City Engineering Department, maps,	10 00	
Meekins, Packard & Wheat, map,	5 00	
Geo. M. Fiske, stamps,	3 95	
C. E. Perkins, photographs,	2 50	
New England Telephone and Telegraph Co., service,	2 50	
Mrs. S. O. Converse, barn rent,	18 00	
F. E. Webb, livery,	2 50	
Boston & Albany Railroad Co., freight,	1 07	
Total payments,	$80,265 57	
To contingent account,	16 20	
		$80,281 77

Cr.

By appropriation,	$80,000 00	
Collector: sundry bills,	276 77	
W. J. Converse, Supt., sale of harness,	5 00	
		$80,281 77

Mayor's Department.

Francke W. Dickinson, Mayor,	$3,000 00
Francke W. Dickinson, cash paid,	15 84
Helen P. Emery, clerk,	933 32
E. T. Tifft, cash paid for office expenses,	32 90
Springfield Printing and Binding Co., printing,	25 40
J. G. Lutz, letter heads,	19 00
Henry R. Johnson, stationery,	13 46
F. S. Webster Co., paper,	5 75
Springfield News Co., paper,	2 96
H. Rude Co., blotters,	50
Springfield Union, subscription,	12 00
Amount carried forward,	$4,061 13

Amount brought forward,	$4,061 13	
L. W. Keyes, subscription,	10 00	
Springfield Homestead Newspaper Co., subscription,	6 00	
Municipal Journal Publishing Co., subscription,	3 00	
Price & Lee Co., directory,	4 00	
Smith Premier Typewriter Co., roll	1 50	
Dissell Publishing Co., annotations,	1 00	
New England Telephone and Telegraph Co., service,	8 90	
Total payments,	$4,095 53	
To contingent account,	204 47	
		$4,300 00

Cr.

By appropriation,	$4,300 00	
		$4,300 00

Medical Inspection of Schools.

Board of Health, printing and stationery,	$101 74	
Henry Ritter, M.D., medical inspection,	65 00	
Ralph B. Ober, M.D., medical inspection,	65 00	
F. H. Haskins, M.D., medical inspection,	65 00	
R. S. Benner, M.D., medical inspection,	65 00	
C. F. J. Kennedy, M.D. medical inspection,	65 00	
E. S. Smith, M.D., medical inspection,	65 00	
W. H. Chapin, M.D., medical inspection,	65 00	
C. E. Street, M.D., medical inspection,	65 00	
J. P. Hillard, M.D., medical inspection,	65 00	
M. W. Harrington, M.D., medical inspection,	65 00	
Total payments,	$751 74	
To contingent account,	1 26	
		$753 00

Cr.

By transfer from Board of Health,	$753 00	
		$753 00

Mill River Valley Sewer. (Completed.)

D. J. Curtis, balance on contract,	$2,154 22	
Expended in 1906,	$2,154 22	
Expended in 1905,	22,818 35	
Expended in 1904,	20,573 14	
Expended in 1903,	433 29	
Expended in 1902,	3,119 56	
Expended in 1901,	16,769 36	
Expended in 1900,	31,704 73	
Transferred to Sewers and Drains, in 1901,	7,300 00	
		$104,872 65

Cr.

By appropriation from sale of 3% sewer bonds, 30 years from June 1, 1900 (sold in 1900),	$50,000 00	
By appropriation from sale of 3½% sewer bonds, 1 to 25 years (sold in 1901),	9,600 00	
By appropriation from sale of 3½% sewer bonds (sold in 1904),	40,000 00	
Premium on above bonds,	50 00	
Transferred from Sewers and Drains in 1905,	3,500 00	
By appropriation from City Council,	1,722 65	
		$104,872 65

Municipal Building Expenses.

Stephen P. Burns, City Messenger,	$1,219 53
Stephen P. Burns, cash paid,	25 35
James H. Lay, assistant messenger,	840 00
W. H. Loomis, janitor,	684 00
United Electric Light Co., lights	261 22
Springfield Gas Light Co., gas,	5 82
Springfield Consolidated Ice Co., ice,	36 64
Springfield Pure Water Co., use of filter,	3 00
Amount carried forward,	$3,075 56

Amount brought forward,	$3,075 56	
New England Telephone and Telegraph Co., service,	14 56	
Moses Ehrlich Coal Co., coal,	390 45	
Burrough's Adding Machine Co., adding machine,	375 00	
Meekins, Packard & Wheat, furniture,	333 45	
Flint & Brickett Co., furniture,	18 00	
Chas. Hall, dusters,	21 30	
Starr Electric Co., electric fan,	14 00	
Homer Foot & Co., hardware,	8 47	
J. Douglas Law, hardware,	5 20	
Schools, brushes,	3 50	
Cheney Bigelow Wire Works, screens,	3 15	
H. P. Ferre, stamps,	1 85	
Burgin Bros., irons,	1 50	
P. H. Healy, sign,	50	
Morgan Envelope Co., supplies,	6 25	
Smith & Murray supplies,	5 35	
T. M. Walker & Co., supplies,	2 16	
Price & Lee Co., directory,	4 00	
Walter D. Phelps, weekly guide,	2 50	
H. Rude Co., stationery,	1 15	
Chamberlain Metal Weather Strip Co., weather strips,	133 55	
T. B. Gilbert, carpenter work,	47 78	
Jonathan Short, carpenter work,	35 42	
Hawes & Gray, electrical work,	19 66	
Bowman & Gregg, electrical work,	12 68	
Chas. A. Allbe, plumbing,	16 11	
Oliver & Howland Co., plumbing,	7 30	
D. Schoonmaker, plating,	50	
H. J. Pratt & Co., furnace repairs,	9 10	
J. F. McCormick, roof repairs,	7 90	
Geo. W. Taylor, lock work,	2 60	
L. H. Richards, moving safe,	2 00	
Total payments,	$4,582 50	
To contingencies,	17 50	
		$4,600 00

Cr.

By appropriation,	$4,000 00	
Transfer from contingent account,	600 00	
		$4,600 00

Pauper Department.

SALARIES.

Edward I. White, Agent,	$2,000 00	
Jennie S. Lombard, clerk and bookkeeper,	1,200 00	
J. N. Boyer, Jr., city physician,	749 98	
S. J. Russell, city physician,	250 02	
		$4,200 00

SERVICES AT ALMSHOUSE.

Lyman W. Sexton, Master,	$1,200 00	
Jennie M. Clark, matron,	360 00	
Rev. Joseph Scott, chaplain,	200 00	
Rt. Rev. T. D. Beaven, chaplain,	200 00	
Employees,	5,097 05	
		7,057 05

FUEL AND LIGHT.

M. S. Converse Co., coal,	$3,911 84	
M. A. Maynard, coal,	1,275 88	
Wight-Thayer Co., coal,	26 55	
B. F. Mitchell, coal,	11 35	
James F. Barry, coal,	10 25	
Frank H. Whitaker, coal,	7 00	
Chas. Allen, wood,	378 96	
V. A. Shaw, wood,	283 70	
E. A. Hall, wood,	78 22	
Warren P. Knox, wood,	54 75	
M. E. Ballou & Son, wood,	51 38	
Keefe Bros., wood,	48 28	
John Davis, wood,	46 44	
Amounts carried forward,	$6,184 60	$11,257 05

Amounts brought forward,	$6,184 60	$11,257 05
United Electric Light Co., lights,	370 61	
Springfield Gas Light Co., gas,	13 19	
William R. Winn, oil,	63 66	
L. M. Crane & Co., oil,	26 48	
Edward Wines, oil,	10 80	
G. A. Hosmer Co., oil,	10 00	
Hisgen Bros., gasoline,	40 17	
		6,719 51

PROVISIONS, CLOTHING, SUPPLIES, AND REPAIRS.

Rood & Woodbury, groceries,	$5,304 30	
H. H. Colwell & Co., groceries,	222 27	
W. A. Combs, groceries,	157 70	
C. W. Hegeman, groceries,	70 16	
Houlihan & Leary, groceries,	22 00	
Geo. Nye & Co., provisions,	1,194 38	
C. E. Brown, provisions,	608 00	
Downing, Taylor Co., provisions,	450 22	
Henry J. Perkins Co., provisions,	58 75	
F. M. Butler & Co., butter and eggs,	409 32	
Sturtevant, Merrick Co., supplies,	334 15	
Chas. A. Wright, meat,	330 99	
H. L. Handy Co., meat,	36 50	
Seyms & Co., tobacco,	82 81	
Joseph Whitcomb & Co., tobacco,	14 50	
Fleischman Co., yeast,	74 55	
Griffin Bros., potatoes,	64 13	
C. W. Shaw, potatoes,	21 75	
James Gregory & Son, potatoes,	11 25	
R. L. Blaisdell, milk,	48 90	
Burger & Taft, ice,	25 00	
Oriental Tea Co., tea,	23 36	
National Biscuit Co., crackers,	29 03	
V. E. Moore, flour,	997 47	
Smith & Murray, clothing,	750 88	
Amounts carried forward,	$11,342 37	$17,976 56

Amounts brought forward,	$11,342 37	$17,976 56
Massachusetts State Prison, clothing,	343 80	
Haynes & Co., clothing,	57 43	
Morse & Haynes, shoes,	199 89	
McIntosh Co., shoes,	9 64	
Lewis Batting Co., gauze,	268 69	
Breck Rubber Co., sheeting,	39 43	
Goodyear Rubber Store, supplies,	34 70	
Morgan Envelope Co., supplies,	27 16	
Guilford & Wood Horse Co., pair horses,	450 00	
J. A. Sheckler, exchange of horses,	200 00	
William Fuller & Son, horse and harness,	150 00	
E. P. Miller, hogs,	36 00	
Franklin Harder, feed,	634 32	
A. W. Charter, feed,	60 41	
Van Deusen & Foley, feed,	50 77	
Geo. N. Vaughan, hay,	37 33	
N. A. Foster, straw,	37 22	
Geo. Foster, straw,	33 52	
Miss Emma Warner, hay,	26 87	
Scavenger Department, dressing,	111 00	
John Gill, dressing,	35 65	
G. A. Ashton, dressing,	19 62	
A. S. Atchinson, dressing,	1 56	
R. S. White, filling,	25 00	
S. D. Warner, filling,	8 00	
T. W. Gilbert, paint,	237 98	
New England Felt Roofing Co., elastic coating,	13 00	
Hampden Lumber Co., lumber,	125 73	
Springfield Lumber Co., lumber,	59 85	
C. A. Bartholomew, posts,	29 35	
Leonard Clark & Son, hardware,	133 01	
Geo. A. Graves & Sons, hardware,	75 59	
Homer Foot & Co., hardware,	33 95	
Cheney Bigelow Wire Works, wire cloth,	28 24	
Bacon & Donnovan Engine Co., gear, etc.,	8 75	
Amounts carried forward,	$14,985 83	$17,976 56

Amounts brought forward,	$14,985 83	$17,976 56
Clark Flexible Metallic Packing Co., packing,	8 25	
Davitt Iron Foundry, castings,	7 20	
Springfield Foundry Co., castings,	6 50	
Hampden Cornice Works, tank,	4 25	
Highways and Bridges, grates,	2 00	
H. W. Allen, soap, etc.,	83 98	
Fisk Mfg. Co., soap,	58 65	
F. M. West Box Co., sawdust,	24 38	
Norman C. Hayner & Co., "Killitol,"	14 70	
Worrell Mfg. Co., exterminator,	12 50	
National Insecticide Co., insecticide,	5 00	
Philadelphia Grease Mfg. Co., grease,	4 00	
Solshine Mfg. Co., grease,	3 75	
Middlesex County House of Correction, brooms,	19 75	
O. H. Dickinson, baskets,	16 65	
Hotchkiss Basket Co., baskets,	6 00	
Young Bros., baskets,	1 50	
Broad Gauge Iron Works, fixtures,	9 92	
Columbia Towel Supply Co., towel supply,	9 00	
F. E. Ladd, clock,	1 50	
E. Howard Clock Co., clock spring,	55	
Chas. Hall, chimneys,	1 09	
Joseph Breck & Sons, seeds,	16 52	
John Max, plants,	11 25	
C. P. Thompson & Co., medicine,	280 75	
Chas. V. Ryan medicine,	111 71	
Sexton's Pharmacy, medicine,	71 85	
J. H. Beauvais, medicine,	59 60	
Merriam's Pharmacy, medicine,	26 30	
Harry P. Elsey, medicine,	10 05	
W. B. Noble, medicine,	7 45	
James W. Delehanty, medicine,	5 95	
E. F. Leonard & Co., medicine,	5 95	
E. A. Richmond, medicine,	5 90	
Mooney's Pharmacy, medicine,	5 55	
Amounts carried forward,	$15,905 78	$17,976 56

Amounts brought forward,	$15,905 78	$17,976 56
J. E. Chenette, medicine,..................	4 60	
D. F. Keefe, medicine,....................	2 95	
A. E. Sunter Drug Co., medicine,...........	2 35	
W. B. Chandler, medicine,.................	2 35	
Henry Adams & Co., medicine,..............	1 60	
I. F. Murphy Co., medicine,...............	1 50	
F. N. Wheeler & Co., medicine,............	75	
E. M. Coats & Co., alcohol,................	41 00	
Wm. M. Williams, surgical supplies,........	12 00	
C. Rogers & Co., spectacles,...............	5 50	
Burgin Bros., stretcher,...................	1 25	
Sampson & Sweeney, burials,...............	195 00	
C. J. Roadstrand Co., burials,.............	190 00	
N. L. Byron, burials,......................	68 00	
John J. Gleason, burials,..................	45 00	
Cadwell & Perry, burials,..................	33 00	
J. H. Clune, burial,.......................	16 00	
T. F. Broughall, burial,...................	15 00	
Washburn Undertaking Establishment, burial,	10 00	
John B. Shea, burial,......................	6 00	
Springfield Printing and Binding Co., printing, ...	116 70	
W. J. Eldred, printing,....................	7 50	
Republican Co., advertising,...............	1 20	
Henry R. Johnson, stationery,..............	19 84	
J. G. Lutz, letter heads,..................	7 50	
H. P. Ferre, ink,..........................	8 00	
Geo. M. Fiske, stamps,.....................	2 75	
Price & Lee Co., directories,..............	12 00	
Springfield Union, subscription,...........	6 00	
Walter D. Phelps, subscription,............	2 50	
Overseers of Poor, cash for office expenses, etc., ...	2,109 44	
L. W. Sexton, cash paid,...................	210 54	
Chas. W. Hemenway, keeper at lodge,......	750 00	
John Haggerty, teamster,..................	453 25	
Amounts carried forward,	$20,266 85	$17,976 56

Amounts brought forward,	$20,266 85	$17,976 56
Collin C. Millett, labor,	57 90	
Hartford Steam Boiler Inspection and Insurance Co., premiums,	90 00	
New England Telephone and Telegraph Co., service,	49 29	
E. H. Holden, veterinary services,	75 00	
Dewitt C. Shaw, M.D., professional services,	15 00	
Dudley Carlton, M.D., professional services,	15 00	
E. M. Russell, M.D., professional services,	5 00	
Henry Ritter, M.D., professional services,	4 00	
F. R. Richmond, services architect,	5 00	
Donahue Bros., plumbing,	785 90	
B. G. Bacon, plumbing,	146 59	
Wyckoff & Lloyd Co., piping,	414 24	
Horace Goodwin, carpenter work,	664 96	
F. G. Warner, carpenter work,	64 76	
Chas. E. Gray, carpenter work,	44 28	
H. L. Brown, mason work,	278 95	
Thos. H. Morin, electrical work,	121 37	
Bowman, Gregg & Co., electrical work,	30 14	
Holyoke Cast Iron Brazing Co., brazing,	57 83	
City Laundry, washing,	10 82	
Columbia Towel Supply Co., towel supply,	3 00	
T. W. Hamilton, sharpening lawn mowers,	2 66	
James L. Bowen, sealing scales,	1 00	
Henry W. Fitch, horse shoeing,	243 50	
G. W. Clampit, horse shoeing,	24 50	
Houghton & Fraser, mattress repairs,	126 40	
Hartford Bedstead Co., repairs,	4 32	
Springfield Steam Carpet Cleaning Co., renovating pillows,	18 90	
Harry W. Stacy, repairs,	96 43	
Smith & Hubbell, repairs,	94 40	
Warren Steam Pump Co., repairs,	65 29	
S. J. Wright, repairs,	36 75	
Wm. E. Clark, repairs,	13 90	
Amounts carried forward,	$23,933 93	$17,976 56

Amounts brought forward,	$23,933 93	$17,976 56
John McCleary & Son, repairs,	12 60	
H. Ford, repairs,	12 55	
S. L. Prentiss, repairs,	5 65	
Geo. W. Taylor, repairs,	2 75	
Simpson Clark, repairs,	1 85	
J. Lyman Griswold, repairs,	1 25	
Fairbanks Co., labor,	3 60	
C. H. Annable, labor,	3 00	
Boston and Albany Railroad Co., freight,	61 60	
F. M. Marsh, carting,	11 25	
		24,050 03

AID RENDERED AND SUPPORT OF POOR AND INSANE.

Mercy Hospital,	$1,619 93	
Springfield Hospital,	1,172 75	
City of Holyoke,	217 35	
City of Worcester,	202 68	
Mass. Hospital for Epileptics,	169 46	
City of Northampton,	167 37	
City of Boston,	146 33	
Town of Westfield,	142 85	
Town of West Springfield,	126 24	
Town of Erving,	124 26	
Commonwealth of Massachusetts,	86 08	
City of Somerville,	60 25	
City of Lawrence,	40 20	
Town of Warren,	37 41	
City of Fall River,	31 50	
Town of Becket,	31 03	
City of Pittsfield,	15 00	
City of New Bedford,	13 19	
Town of Greenfield,	12 00	
City of Salem,	9 00	
Town of Watertown,	6 65	
Amounts carried forward,	$4,431 53	$42,026 59

Amounts brought forward,	$4,431 53	$42,026 59
Foxboro State Hospital,	2 32	
Town of Williamstown,	2 00	
Town of Agawam,	2 00	
		4,437 85
Total payments,		$46,464 44
To contingent account,		1,671 06
		$48,135 50

Cr.

By appropriation,	$34,000 00	
State Treasurer: transportation of state paupers,	69 10	
Collector: bills collected for aid and support of sundry persons,	13,866 40	
Overseers of the Poor: return of money advanced for incidental office expenses,	200 00	
		$48,135 50

Police and Watch.

Geo. M. Stebbins, City Marshal,	$1,800 00	
Police Officers, regular and special pay roll for the year,	89,405 65	
		$91,205 65

MISCELLANEOUS.

Geo. M. Stebbins, cash for office expenses,	$1,124 96	
P. H. McDonald, cash paid,	38 98	
S. L. Wheeler, cash paid,	7 70	
Thomas Ranney, cash paid,	2 00	
United Electric Light Co., electric lights,	1,191 52	
New England Telephone and Telegraph Co., service,	649 98	
Amounts carried forward,	$3,015 14	$91,205 65

Amounts brought forward,	$3,015 14	$91,205 65
Western Union Telegraph Co., messages,....	42 16	
Postal Telegraph-Cable Co., messages,......	24 94	
Springfield Gas Light Co., gas,.............	12 38	
George P. Chapin, clerk,..................	187 50	
Chas. M. Wright, lock up keeper,...........	25 00	
O. G. Cash, fees,..........................	80 48	
H. W. Bullock Est., fees,..................	3 58	
City Engineering Department, services,......	2 62	
Cone & Sherwood, bonds,..................	10 50	
George C. Tait, coal,......................	866 71	
M. A. Maynard, coal,......................	12 80	
Pauper Department, wood,.................	4 00	
Hisgen Bros., gasoline,....................	144 58	
William R. Winn, oil,.....................	7 85	
Knox Automobile Co., supplies,.............	398 75	
Smith & Hubbell, concord, etc.,............	195 75	
A. D. Wheeler, Agt., elements,.............	171 86	
Gamwell Fire Alarm Telegraph Co., signals,	142 35	
S. A. French, equipments,.................	61 60	
Mosler Safe Co., safe,.....................	45 00	
C. C. Marshall, clubs,.....................	20 00	
Fisk Rubber Mfg. Co., tire grips,...........	20 00	
National Casket Co., ambulance basket,....	17 00	
Ames Sword Co., belts,....................	14 00	
Goodyear Rubber Co., hose,................	3 50	
Springfield Felting Co., cork,..............	1 45	
Wadsworth, Howland & Co., paint,..........	40	
S. J. Wright, harness supplies,.............	19 15	
Harry L. Hawes, supplies,.................	4 40	
V. E. Moore, feed,........................	189 61	
Homer Foot & Co., hardware,..............	130 49	
Geo. A. Graves & Sons, hardware,..........	50	
Dwight B. Montague, hardware,............	35	
Springfield Lumber Co., lumber,............	5 48	
Meekins, Packard & Wheat, furnishings,....	150 60	
Smith & Murray, furnishings,..............	46 32	
Downing, Taylor & Co., matches,...........	22 75	
Amounts carried forward,	$6,101 55	$91,205 65

Amounts brought forward,	$6,101 55	$91,205 65
Morgan Envelope Co., supplies,	24 75	
Chas. Hall, supplies,	19 00	
Henry W. Ross, supplies,	1 50	
P. M. Frank Disinfecting Co., disinfectant,	31 20	
S. Slater & Sons, uniform cloth,	359 90	
Scovill Mfg. Co., buttons,	52 50	
Whitehead & Hoag Co., buttons,	5 40	
Thomas D. Gard & Co., badges,	15 00	
J. O. Sawtell, gloves,	6 25	
Hotel Gilmore, meals,	301 94	
H. E. Streeter, doughtnuts,	74 49	
Springfield Consolidated Ice Co., ice,	71 12	
Emerson Laboratory, examinations,	88 00	
M. W. Harrington, M.D., services,	10 00	
E. B. Adams, M.D., services,	2 00	
E. C. Collins, M.D., services,	2 00	
H. & J. Brewer, medicine,	8 95	
C. P. Thompson & Co., medicine,	1 80	
Henry Adams & Co., medicine,	75	
Wm. M. Williams, surgical supplies,	1 10	
Springfield Printing and Binding Co., printing,	379 68	
Homestead Job Print, printing,	25 00	
Springfield Union, advertising,	36 37	
Daily News Publishing Co., advertising,	25 00	
Republican Co., advertising,	20 70	
Springfield Homestead Newspaper Co., advertising,	2 40	
Henry R. Johnson, stationery,	116 15	
Neostyle Co., paper,	30 60	
H. W. Carter & Co., paper,	8 50	
Library Bureau, cards,	42 18	
Colby Mfg. Co., cards,	4 24	
J. G. Lutz, letter heads,	18 00	
Jacobs, Whitcomb & Co., pens,	6 27	
Loring-Axtell Co., roller,	2 00	
D. J. Bordeaux, photographs,	36 60	
Amounts carried forward,	$7,932 89	$91,205 65

Amounts brought forward,	$7,932 89	$91,205 65
Bowen & Son, supplies,	23 25	
Baker-Vawter Co., supplies,	13 30	
Springfield News Co., supplies,	11 76	
E. R. Taft, prints,	2 25	
W. S. Bagg, subscription,	18 87	
L. W. Keyes, subscription,	10 00	
Walter D. Phelps, subscription,	2 50	
Price & Lee Co., directories,	16 00	
H. W. Guterman, painting,	811 00	
Ernest W. Browning, painting,	44 00	
T. M. Walker & Co., setting glass,	10 45	
Bowman, Gregg & Co., electrical work,	50 84	
Thos. H. Morin, electrical work,	3 90	
Donahue Bros., plumbing,	23 44	
J. A. Lynch, plumbing,	13 80	
L. P. Page & Co., plumbing,	5 80	
D. Schoonmaker, plating,	22 89	
E. B. Johnson, carpenter work,	20 00	
O. A. La Riviere, concrete walk,	187 00	
P. H. Quinn, horse shoeing,	117 55	
Chas. A. Higgins, laundry,	54 24	
Wm. H. Holmes, laundry,	47 89	
Geo. W. Taylor, repairs,	24 75	
J. Stuart Kirkham, repairs,	21 25	
J. A. Lynch, repairs,	7 50	
Henry Clinton, repairs,	2 00	
Woods & Co., repairs,	1 25	
Edward A. Nelson, labor bicycles,	65 40	
Fred D. Johnson, labor,	14 00	
Springfield Steam Carpet Cleaning Co., labor,	4 12	
S. L. Prentiss, recharging filter,	3 50	
Mercy Hospital, care P. H. McDonald,	30 71	
M. R. Donovan, enforcing license,	5 55	
Andrew J. Melaney, hat destroyed in raid,	2 50	
V. M. Frost, livery,	11 00	
Henry & Marsh, livery,	6 50	
Seymour Stables, livery,	6 00	
Amounts carried forward,	$9,649 65	$91,205 65

Amounts brought forward,	$9,649 65	$91,205 65
John Collins, livery,	4 00	
James J. Connor, livery,	3 00	
		9,656 65
Total payments,		$100,862 30
To contingent account,		122 52
		$100,984 82

Cr.

By appropriation,	$93,000 00	
Transferred from contingencies,	1,600 00	
Geo. Leonard, Clerk of Police Court, fines less officers' fees paid in police court,	4,433 59	
E. P. Clark, Master, fines paid at house of correction,	969 00	
Geo. M. Stebbins, City Marshal, return of money advanced for office expenses,	200 00	
Geo. M. Stebbins, City Marshal, use of ambulance, sale of uniform cloth, etc.,	673 80	
Chas. M. Wright, Assistant Marshal, lockup fees,	77 00	
Sundry receipts,	31 43	
		$100,984 82

Printing and Stationery.

Springfield Printing and Binding Co., printing,	$2,084 44
J. G. Lutz, services as expert printer,	275 00
Springfield Union, advertising,	106 97
Republican Co., advertising,	61 25
Daily News Publishing Co., advertising,	55 14
Springfield Homestead Newspaper Co., advertising,	46 80
Amount carried forward,	$2,629 60

Amount brought forward,	$2,629 60	
Public Parks, maps,	47 50	
W. J. Eldred, sinking fund book,	15 50	
Carter's Ink Co., ink,	13 20	
J. G. Lutz, letter heads,	10 50	
H. Rude Co., stationery,	4 90	
A. H. Bartlett, pads,	3 52	
H. W. Carter & Co., blotters,	3 40	
Henry R. Johnson, pens,	1 50	
E. A. Newell, cash paid,	85	
Total payments,	$2,730 47	
To contingencies,	19 53	
		$2,750 00

Cr.

By appropriation,	$2,600 00	
Transferred from contingencies,	150 00	
		$2,750 00

Public Parks.

Pay roll,	$16,244 25
Charles E. Ladd, Superintendent of Parks,	1,800 00
Charles E. Ladd, cash paid,	256 90
C. P. Nelson, foreman,	1,000 02
W. G. Wheelden, foreman,	840 00
H. J. Clark, foreman,	586 67
Stanley Hargreaves, foreman,	271 04
J. P. Costello, park police,	800 00
J. W. Smith, park police,	800 00
J. A. Davis, florist,	780 00
C. H. Emerson, care Calhoun Park,	15 00
J. R. Blumenthol, pair bay horses,	600 00
Dexter Root Co., feed,	1,616 00
V. E. Moore, feed,	533 83
F. E. Webb, feed,	202 03
Strong, Lefferts Co., feed,	180 69
C. S. Allen, feed,	127 07
Amount carried forward,	$26,653 50

Amount brought forward,	$26,653	50
W. C. Pease, feed,	32	98
R. Gordenstein, meat,	423	57
E. T. Haynes, meat,	28	68
J. W. Smith, meat,	10	57
Dexter's Model Bakery, bread,	161	16
Bondi Bros., bananas,	83	59
E. O. Smith Co., molasses,	13	40
Burger & Taft, ice,	10	00
Highways and Bridges, macadam,	1,807	49
E. S. Decker Lumber Co., lumber,	809	02
C. A. Bartholomew, lumber,	21	63
Standard Brick Co., brick,	112	30
T. Shea, cement,	462	74
H. P. Thompson, gravel,	9	20
M. A. Maynard, pipe,	1	95
Hitchcock Supply Co., fittings,	737	57
Oliver & Howland Co., fittings,	90	54
O. C. Alderman, hardware,	326	63
Homer Foot & Co., hardware,	223	81
Geo. A. Graves & Sons, hardware,	55	35
Chas. C. Lewis Co., hardware,	11	75
R. E. Fairchild, hardware,	3	00
E. S. Powers, hardware,	1	38
Springfield Foundry Co., castings,	13	20
Simpson Clark, boiler,	11	22
Wyckoff Lloyd Co., valves,	5	25
Felix Bareille, bits,	2	00
D. W. Mellen & Co., paint,	103	61
T. M. Walker & Co., paint,	83	25
Wm. D. Warner, paint,	16	88
Chas. A. Wright, oil,	36	99
Wm. R. Winn, oil,	24	25
S. J. Cordner Co., oil,	21	88
Penn. Coal & Coke Co., coal,	133	66
M. S. Converse Co., coal,	84	79
S. Richard Carlisle, coal,		88
A. Chisholm, harness supplies,	83	17
Amount carried forward,	$32,712	84

Amount brought forward,	$32,712	84
Maynard Rubber Corporation, hose,	74	92
Oliver Briggs & Son, roque rubber,	54	00
American Hard Rubber Co., roque balls,	24	00
E. A. Nelson, bases,	12	00
W. M. Mills, wickets,	10	50
Stillman B. Call, tennis nets,	49	15
Bacon & Donnovan Engine Co., sleds,	33	19
Standard Oil Co. of N. Y., barrels,	23	75
S. P. Townsend & Co., lawn mowers,	20	00
W. P. Dodge, webbing,	16	20
Forbes & Wallace, supplies,	13	50
Wm. N. Flynt Granite Co., supplies,	12	44
T. Flanaghan, supplies,	10	00
Buffalo Steam Roller Co., supplies,	8	75
Jos. Breck & Sons Cor., supplies,	3	50
Smith & Murray, supplies,	2	40
Charles L. Howe, insecticide,	37	50
Schoonmaker & Son, insecticide,	32	76
Formozone Hygenic Mfg. Co., formozone,	17	50
Norman C. Hayner Co., killitol,	7	35
H. C. Puffer Co., seeds, bulbs, etc.,	232	00
Henry A. Dreer, seeds, bulbs, etc.,	137	32
J. W. Adams, bulbs,	217	05
Arthur Cowee, bulbs,	8	25
Edward Gillett, bulbs,	5	00
O. H. Dickinson, seeds,	26	96
W. S. Bagg, seeds,	21	65
J. M. Thorburn & Co., seeds,	10	05
Peter Henderson & Co., seeds,	8	47
R. & J. Farquhar & Co., seeds,	3	20
D. Hill, shrub,	13	50
John W. Glynn, turf,	58	54
Dormant Sod Co., dressing,	50	00
H. A. Braman, dressing,	36	00
F. M. West Box Co., sawdust,	13	10
Jos. Whitcomb & Co., tobacco stems,	4	78
Amount carried forward,	$34,022	12

Amount brought forward,	$34,022 12	
Springfield Printing and Binding Co., printing,	232 26	
Geo. G. Ware, typewriter,	65 40	
Springfield Photo Engraving Co., half-tones,	61 00	
L. J. Richards, maps,	55 00	
W. J. Eldred, blanks,	24 00	
J. G. Lutz, blanks,	7 50	
H. W. Carter & Co., paper,	17 47	
Morgan Envelope Co. Div., envelopes,	8 50	
Henry R. Johnson, books,	2 85	
United Electric Light Co., lights,	197 48	
New England Telephone and Telegraph Co., service,	14 13	
M. E. Chapin, veterinary services,	45 15	
City Engineering Department, services,	6 50	
Knox Automobile Co., repairs and supplies,	434 41	
Geo. R. Estabrook, repairs,	30 55	
Smith & Hubbell, repairs,	3 00	
Walks and Curbing, laying walks,	385 58	
P. H. Quinn, horse shoeing,	321 10	
Henry W. Fitch, blacksmithing,	88 00	
M. J. Dunn & Co., blacksmithing,	40 35	
C. F. Randall, painting roof,	294 00	
W. E. Watts, Agt., carpenter work,	222 50	
Carter Electric Co., electrical work,	54 00	
Starr Electric Co., electrical work,	48 20	
Forestry, trimming trees,	132 97	
T. W. Hamilton, sharpening mowers,	55 35	
Blair Mfg. Co., sharpening mowers,	7 60	
Paul Weidenmiller Grinding Co., grinding clippers,	1 50	
Thomas Lyons, labor,	110 49	
R. F. Hawkins Iron Works, iron work,	23 20	
John W. Russell, iron work,	11 35	
Harry W. Stacy, iron work,	6 88	
Water Works, office rent,	13 82	
Total payments,	$37,044 21	
Balance to account of 1907,	1,927 63	
		$38,971 84

Cr.

By appropriation,	$35,000 00	
Balance from account of 1905,	2,757 40	
Chas. E. Ladd, Supt., rents and sales,	969 75	
Collector: from departments and sundry persons for labor and material,	232 69	
Sundry receipts,	12 00	
		$38,971 84

Public Sanitaries.

George R. Pyne, plans,	$91 00	
Springfield Union, advertising,	1 88	
Springfield Homestead Newspaper Co., advertising,	1 80	
Daily News Publishing Co., advertising,	1 25	
Republican Co., advertising,	1 10	
Total payments,	$97 03	
Transferred to moneys in the treasury not otherwise appropriated,	2,502 97	
		$2,600 00

Cr.

By appropriation,	$2,600 00	
		$2,600 00

Scavenger Department.

Pay roll, drivers of scavenger wagons,	$11,438 85
Almon Gott, collecting house offal, Indian Orchard,	60 00
V. E. Moore, feed,	752 09
Springfield Commission House, feed,	449 68
H. C. Puffer Co., feed,	432 63
Franklin Harder, feed,	354 77
Van Deusen & Foley, hay,	266 23
J. D. Pierce, hay,	106 17
P. J. Mitchell, hay,	27 11
Amount carried forward,	$13,887 53

Amount brought forward,	$13,887	53
Maria Bliss, straw,	21	69
H. W. McIntire, horse,	165	00
Highways and Bridges, use of horse,	8	50
S. J. Wright, harness supplies,	155	35
Burgin Bros., wagon covers,	41	27
Solshine Mfg. Co., polish,	7	50
N. S. Beebe, pails,	59	60
Mortimer J. Hall, hardware,	17	57
Homer Foot & Co., hardware,	11	03
Chas. C. Lewis Co., hardware,	10	17
Geo. A. Graves & Sons, hardware,	8	09
C. C. Spencer, hardware,	3	81
Geo. R. Estabrook, hardware,		85
M. A. Maynard, coal,	15	00
C. A. Bartholomew, plank,	7	50
C. H. Annable, lumber,	6	60
Hampden Lumber Co., lumber,	5	46
John Ferris, lumber,	4	50
Highland Paint & Wall Paper Co., wall paper,	4	36
T. W. Gilbert, paint,	3	15
Geo. R. Estabrook, fittings,	1	50
Geo. M. Burnham, balance moving building and carpenter work,	469	62
T. B. Gilbert, carpenter work,	7	67
Joseph W. Hayden, carpenter work,	6	24
Adolph Thiebe, horse shoeing,	145	95
W. B. Spencer, horse shoeing,	91	01
A. J. Goyette, horse shoeing,	63	60
James Healey, horse shoeing,	39	60
F. W. Gubbins, horse shoeing,	21	00
R. E. Goodspeed & Co., horse shoeing,	6	50
P. E. Cleary & Co., blacksmithing,	147	33
Thos. R. O'Brien, blacksmithing,	69	04
Henry W. Fitch, blacksmithing,	14	40
B. G. Bacon, plumbing,	61	25
Smith & Potter, plumbing,	5	13
R. J. Moreton, plumbing,	1	60
Amount carried forward,	$15,595	97

Amount brought forward,	$15,595 97	
H. Ford, piping,	30 06	
Thos. H. Morin, electrical work	24 66	
Sewers and Drains, labor,	6 32	
John Reilly & Son, repairs,	1 20	
Geo. W. Taylor, repairs,	50	
W. J. Gleason, veterinary services,	23 05	
United Electric Light Co., lights,	8 80	
New England Telephone and Telegraph Co., tolls,	1 27	
Total payments,	$15,691 83	
To contingent account,	6 97	
		$15,698 80

Cr.

By appropriation,	$13,000 00	
James Kimball, Agt.: house offal sold,	2,135 80	
Collector: sundry bills,	563 00	
		$15,698 80

Schools.

Teachers' salaries,	$259,936 47
Wilbur F. Gordy, Superintendent,	4,000 00
Fred L. Ward, chief clerk,	1,500 00
Edith Brown, stenographer and clerk,	850 50
Leotta A. Pinney, clerk,	465 00
Gertrude E. Chapin, clerk,	381 31
Alice M. Hancock, clerk,	198 32
Anna C. Murray, clerk,	90 67
Marian Pease, clerk,	9 12
Edith M. Hawkes, secretary at high school,	750 00
Bertha M. McConkey, secretary of school committee,	142 66
John G. Taylor, truant officer,	1,200 00
H. A. Killmer, assistant truant officer,	708 37
Mrs. G. Viggers, matron,	288 45
Amount carried forward,	$270,520 87

Amount brought forward,	$270,520 87	
Mrs. Delia Flanaghan, matron,	277 38	
Mrs. Clara Campbell, matron,	262 43	
Mrs. A. R. Woods, matron,	245 85	
Jennie Wood, matron,	244 35	
Mrs. E. Van de Carr, matron	29 10	
Mrs. David Barlow, matron,	1 50	
Chas. A. H. Parker, handling supplies,	636 00	
Raymond Parker, handling supplies,	15 90	
Joseph Bressard, transportation of pupils,	500 00	
Henry N. Penfield, taking school census, 1906,	410 13	
Anna E. Hill, engrossing diplomas,	105 75	
William H. Maxwell, commencement address,	59 00	
Philharmonic Orchestra, services high school graduation,	25 00	
C. M. Eckert, services,	60 00	
Carl Knoff, services,	57 75	
Archie B. Cutler, services,	47 63	
Raymond O. Thayer, services,	32 70	
Carlton C. Strout, services,	30 70	
Edward A. Goyette, services,	28 25	
Peter Dufresne, services,	21 54	
Udell H. Pease, services,	20 40	
Milton Smith, services,	17 75	
J. Howard Whitcomb, services,	15 25	
Keith I. Thayer, services,	12 68	
Herbert Pease, services,	12 45	
Arnold Narrgard, services,	8 10	
Harold Foster, services,	7 15	
P. L. Cohn, services,	4 57	
Theresa M. Lane, services,	4 40	
Edward Hosmer, services,	4 00	
R. S. Crane, services,	2 25	
Minnie A. White, services,	2 15	
Howard C. Kelly, services,	2 00	
Abbott R. Todd, laboratory assistant,	51 90	
Cornelius D. Hurley, laboratory assistant,	10 36	
Wm. E. Wilkinson, laboratory assistant,	9 55	
		$273,796 79

Amount brought forward,		$273,796 79

FREE TEXT-BOOKS AND SUPPLIES.

Ginn & Co., books,	$2,823 34	
Benj. H. Sanborn & Co., books,	2,344 23	
American Book Co., books,	1,398 07	
Milton Bradley Co., books and supplies,	1,200 65	
Silver, Burdett & Co., books,	665 69	
Houghton, Mifflin & Co., books,	479 36	
Chas. Scribner's Sons, books,	354 34	
D. C. Heath & Co., books,	296 81	
Thompson, Brown & Co., books,	273 46	
Allyn & Bacon, books,	268 34	
G. & C. Merriam Co., books,	206 15	
Educational Publishing Co., books,	175 01	
Atkinson, Mentzer & Grover, books,	143 30	
D. Appleton & Co., books,	109 98	
Manual Arts Press, books,	94 50	
Mary A. Atherton, books,	90 00	
University Publishing Co., books,	78 00	
Henry Holt & Co., books,	74 38	
Macmillan Co., books,	68 53	
Oliver Ditson Co., books,	67 50	
C. W. Bardeen, books,	55 60	
A. Flanagan Co., books,	45 00	
Arthur J. Barnes Publishing Co., books,	30 00	
Price & Lee Co., directories,	24 00	
G. P. Putnam's Sons, books,	17 50	
G. E. Stechert & Co., books,	12 00	
C. C. Birchard & Co., books,	12 00	
C. S. Binner Corporation, books,	11 00	
Longmans, Green & Co., books,	10 80	
Prang Educational Co., books,	6 58	
The System Co., Publishers, books,	2 00	
Little, Brown & Co., book,	1 49	
Edward E. Babb & Co., school supplies,	2,365 16	
H. Rude Co., school supplies,	828 69	
Forbes & Wallace, school supplies,	272 19	
Amounts carried forward,	$14,905 65	$273,796 79

Amounts brought forward,	$14,905 65	$273,796 79
Springfield News Co., school supplies,	230 05	
J. L. Hammett Co., paper,	1,789 70	
Plymouth Paper Co., paper,	1,414 89	
Kenney Bros. & Wolkins, paper,	1,198 30	
Henry R. Johnson, paper, etc.,	842 46	
C. H. Jordan Co., paper,	698 58	
Casey-Bigley Co., paper,	398 09	
H. W. Carter & Co., paper,	236 43	
Eastern Paper & Supply Co., paper,	135 00	
Plimpton Mfg. Co., paper,	131 00	
Eugene Dietzgen Co., paper,	82 50	
Lindermyer & Sons, paper,	12 00	
Chas. D. Brown & Co., paper,	4 10	
Bay State Paper Co., paper,	2 44	
Carter, Rice & Co., paper,	1 60	
Geo. F. King & Co., paper,	35	
Holden Patent Book Cover Co., book covers,	872 17	
J. C. Moore Corporation, book binders,	4 50	
Rand, McNally & Co., maps,	83 41	
Scarborough Co., maps,	54 65	
McKinley Publishing Co., maps,	24 70	
Department of Interior, map,	1 00	
Thorp & Martin Co., blanks,	12 00	
Burroughs Adding Machine Co., adding, machine,	375 00	
Smith Premier Typewriter Co., typewriters,	219 50	
Geo. G. Ware, typewriters,	199 75	
Neostyle Co., neostyle,	80 00	
H. P. Ferre, stamps,	19 15	
Herman Kohlbusch, balances,	18 75	
Chas. J. Short, slate,	18 35	
N. J. Evans, milvoltmeter,	18 00	
Howard H. Carroll, drawing instruments,	13 34	
Elite Portrait & Art Co., frames,	25 61	
J. & I. E. Moore, ink,	121 75	
Eagle Pencil Co., pencils,	24 15	
A. T. Thompson & Co., carbons,	4 00	
Amounts carried forward,	$24,272 92	$273,796 79

Amounts brought forward,	$24,272 92	$273,796 79
I. Pomeroy Co., crayons,	3 75	
Diamond Paste Co., paste,	94 50	
Combined Tool Co., ink pads,	8 19	
Cambridge Botanical Supply Co., laboratory supplies,	753 36	
Eimer & Amend, laboratory supplies,	137 16	
C. Rogers Co., laboratory supplies,	125 07	
Bausch & Lomb Optical Co., laboratory supplies,	71 45	
Mallinckrodt Chemical Works, laboratory supplies,	66 37	
Wm. Gaertner & Co., laboratory supplies,	27 03	
C. H. Stoelling Co., laboratory supplies,	17 95	
Worcester Machine Screw Co., laboratory supplies,	16 40	
Oliver & Howland Co., laboratory supplies,	11 82	
Davis Electric Mfg. Co., laboratory supplies,	8 89	
Arthur W. Hall Scientific Co., laboratory supplies,	7 38	
A. B. Kimball, laboratory supplies,	5 12	
A. G. Spalding & Bros., gymnasium apparatus,	437 50	
Maynard Rubber Corporation, balls,	30 58	
Goodyear Rubber Store, balls,	28 35	
The Misses Glantzberg, cotton	6 15	
Smith & Murray, needles,	3 06	
Science Museum (City), mounted birds	5 00	
Rattan Novelty Co., reeds,	80	
Alice M. Wing, mounting picture,	12 45	
William H. Stadden, mounting picture,	5 00	
College Entrance Examination Board, certificates,	4 00	
E. E. Kent, certificates,	2 20	
Walter D. Phelps, weekly guide,	2 50	
		26,167 45
Amount carried forward,		$299,964 24

Amount brought forward,		$299,964 24

PRINTING AND ADVERTISING.

Springfield Printing and Binding Co., printing,	$2,034 21	
W. J. Eldred, printing,	165 42	
Jacobs Ticket Print, printing,	2 50	
Hampden Bindery, binding,	543 88	
Springfield Union, advertising,	19 06	
Republican Co., advertising,	13 95	
Springfield Homestead Newspaper Co., advertising,	13 80	
Daily News Publishing Co., advertising,	11 88	
Thomas F. English, advertising,	3 00	

MISCELLANEOUS.

		2,807 70
Wilbur F. Gordy, cash paid for office expenses,	$705 76	
William Orr, cash paid,	124 64	
M. D. Murray, cash paid,	33 36	
Mabel E. Stock, cash paid,	8 75	
A. H. Buck, cash paid,	8 60	
Louise M. Bullman, cash paid,	8 45	
H. L. Dorman, cash paid,	4 90	
F. M. Watts, cash paid,	4 70	
Ellen T. Sullivan, cash paid,	2 78	
Bertha M. McConkey, cash paid,	1 95	
Amy L. Daniels, expenses,	27 00	
Dr. F. N. Seerley, expenses,	17 20	
B. F. Ader, expenses,	16 50	
Sundry pupils, car fares,	342 52	
John G. Taylor, car fares,	39 00	
Springfield Street Railway Co., tickets,	98 00	
Springfield Young Men's Christian Association, use of gymnasium,	112 50	
International Y. M. C. A. Training School, use of athletic grounds,	50 00	
Amounts carried forward,	$1,606 61	$302,771 94

Amounts brought forward,	$1,606 61	$302,771 94
D. O. Gilmore, rent Court Sq. Theatre,	50 00	
Taylor's Music House, rent pianos, etc.,	18 43	
Osterman & Steele, rent palms,	14 00	
New England Telephone and Telegraph Co., service,	80 84	
Postal Telegraph-Cable Co., messages,	14 18	
Albert Candlin, telephone calls,	14 05	
Western Union Telegraph Co., messages,	5 24	
American District Telephone Co., messages,	40	
E. A. Blodgett Lumber Co., lumber,	984 59	
Hampden Lumber Co., lumber,	53 65	
Springfield Lumber Co., lumber,	48 15	
City Lumber Co., lumber,	9 00	
Geo. A. Graves & Sons, hardware,	658 19	
Chandler & Barber, hardware,	4 53	
Homer Foot & Co., hardware,	1 21	
John W. Russell, hardware,	55	
H. W. Stacy, hardware,	15	
C. C. Lewis Co., zinc,	24 32	
Kiefer Bros., washers,	8 50	
H. J. Pratt & Co., copper,	4 38	
Geo. R. Estabrook, tin,	4 20	
Meekins, Packard & Wheat, baskets,	410 32	
O. H. Dickinson, baskets,	35 68	
Morgan Envelope Co., supplies,	147 43	
A. W. Richards & Co., blocks,	66 50	
Carter Electric Co., jars,	41 94	
Bennett Paper Box Co., boxes,	18 67	
Globe-Wernicke Co., cases,	5 15	
F. M. West Box Co., sawdust,	13 78	
Wm. W. Hastings, tables,	12 14	
Quimby & Co., lanterns,	12 00	
Allen Shade Holder Co., ladder,	2 40	
Flora C. Studley, patterns,	1 00	
White Sewing Machine Co., brace,	50	
Chas. E. Mather, jute,	9 97	
J. Edwin Gibbs, pipes,	9 12	
Amounts carried forward,	$4,391 77	$302,771 94

Amounts brought forward,	$4,391 77	$302,771 94
Lauden & Sons, badges,	6 00	
R. W. Smith, shoe lacings,	4 40	
W. D. Kinsman Co., silk,	3 94	
Springfield Consolidated Ice Co., ice,	3 32	
Chas. Hall, tumblers,	80	
W. T. Eaton, supplies,	70	
Cheshire White Quartz Sand Co., sand,	25 00	
V. E. Moore, fertilizer,	1 95	
C. E. Brown & Co., soap,	224 60	
Gibson Soap Co., soap,	12 00	
Downing, Taylor Co., gold dust,	76 80	
Chas. P. Alden & Son, chemicals,	32 20	
Oxford Chemical Co., chemicals,	12 50	
P. M. Frank Disinfecting Co., carbolene,	64 20	
Phinotas Chemical Co., disinfectant,	30 00	
Mooney's Pharmacy, head wash,	30 00	
Sexton's Pharmacy, head wash,	6 00	
Henry Adams & Co., head wash,	3 00	
Oxford Chemical & Medical Co., insecticide,	20 50	
F. L. Hewes & Co., tabo,	14 31	
Norman C. Hayner Co., "killitol,"	7 84	
D. W. Mellen & Co., finish,	4 00	
Miles Greenwood, developer,	3 75	
H. & J. Brewer, medicine,	1 20	
Wadsworth, Howland & Co., sponges & brushes,	388 22	
E. G. Bean, brushes,	170 08	
J. E. Post, brushes,	33 00	
Herbert I. Dollman & Co., brushes,	29 45	
Bunkio Matsuki, brushes,	4 49	
M. Butner, dusters,	99 80	
W. T. Langdon, dusters,	7 25	
Russia Cement Co., dusters,	67	
W. H. Gates, brooms,	38 25	
Fred J. Richards, mops,	22 50	
Wm. G. Hall, cloths, etc.,	33 24	
Lewis J. Ball & Co., matches,	1 43	
Chas. A. Higgins, laundry,	357 49	
Amounts carried forward,	$6,166 65	$302,771 94

Amounts brought forward,	$6,166 65	$302,771 94
W. H. Holmes, laundry,	191 84	
L. M. Pierce, tuning pianos,	57 25	
Town of Ludlow, tuition,	32 00	
Emerson Laboratory, examinations,	30 00	
Clara C. Cooper, dyeing cord,	7 90	
E. A. Finch, labor,	40 00	
E. H. Newell, labor,	3 40	
Ernest G. Bates, piping,	10 28	
Geo. M. Burnham, carpenter work,	10 00	
Frank Parent, carpenter work,	1 50	
Bullock Mfg. Co., enameling,	26 96	
Reynolds & Co., grading,	20 80	
Hawes & Gray, electrical work,	9 06	
Wm. H. Pooley, painting,	6 00	
M. J. O'Malley, labor,	1 50	
John Swaine, blacksmithing,	1 30	
C. C. Spencer, repairs,	50 00	
Remington Typewriter Co., repairs,	17 76	
Oliver Typewriter Co., repairs,	2 15	
Mrs. E. H. Newell, repairs,	1 80	
E. L. Winslow, sharpening knives,	22 11	
A. L. Lockwood, sharpening shears,	7 27	
C. C. Marshall, sawing,	1 50	
Geo. W. Taylor, lock work,	1 25	
E. W. Oatley & Co., expressage,	835 37	
Warren & Hubbard, expressage,	12 65	
H. A. Day, expressage,	50	
Henry & Marsh, livery,	70 00	
Seymour Stables, livery,	2 00	
Raymond Shattuck, delivering reports,	16 05	
B. Tanner, freight and cartage,	2 50	
M. J. Manning, cartage,	2 00	
		7,661 35
Total payments,		$310,433 29
Transferred to Technical High School,		3,190 00
To contingent account,		531 81
		$314,155 10

Cr.

By appropriations,	$300,000 00	
Transferred from contingencies,	8,500 00	
Collector: tuition, etc.,	5,151 50	
F. L. Ward: fines, books and supplies sold,	183 10	
Supt. of schools: return of money advanced for office expenses,	100 00	
State Board of Charity: tuition of children,	220 50	
		$314,155 10

Schools, Cooking.

Teachers' salaries,	$1,974 20	
Lewis J. Ball Co., groceries,	364 30	
Rufus T. Work, groceries,	80 10	
T. A. Yetto, groceries,	35 10	
W. J. Thompson, groceries,	3 22	
D. H. Griffin, meat,	19 44	
W. O. Sheldon, meat,	4 22	
J. E. Keith, fish,	10 13	
L. E. Pease & Son, fish,	45	
Springfield Consolidated Ice Co., ice,	3 60	
John D. Gill, ice,	1 92	
H. Rude Co., paper,	65 52	
Ernest G. Bates, boiler, etc.,	51 14	
Springfield Foundry Co., castings,	6 06	
Springfield Gas Light Co., range door,	2 00	
Forbes & Wallace, dishes,	44 28	
Chas. Hall, dishes,	2 34	
F. W. Woolworth & Co., pans,	2 10	
C. H. Jordan & Co., covers,	18 60	
Meekins, Packard & Wheat, cooking utensils,	6 56	
Pratt Institute, food set,	16 00	
Ernest G. Bates, piping,	17 30	
H. W. Stacy, stove repairs,	8 00	
Mrs. J. J. O'Brien, cleaning,	5 23	
E. W. Oatley & Co., cartage,	5 50	
Total payments,	$2,747 31	
To contingent account,	52 69	
		$2,800 00

Cr.

By appropriation,	$2,800 00	
		$2,800 00

Schools, Evening Trade.

Teachers' salaries,	$2,761 50
Mary E. Hart, clerical assistance,	58 25
Carlos H. Handforth, drawing room assistant,	39 70
A. B. Cutler, drawing room assistant,	3 80
John W. Burley, tool room assistant,	38 50
Raymond C. Wilson, tool room assistant.	10 00
Arthur C. Smith, tool room assistant,	5 00
Ralph A. Parker, tool room assistant,	4 50
Robert F. Wells, laboratory assistant,	12 95
Chas. A. Bursley, laboratory assistant,	5 77
New England Plumbing Supply Co., solder,	341 07
Hitchcock Supply Co., solder,	14 08
Springfield Foundry Co., castings,	43 28
Mrs. B. W. Hunn, lumber,	35 25
Hampden Lumber Co., lumber,	14 85
Chas. C. Lewis Co., steel,	9 62
Eimer & Amend, burners,	8 10
Geo. A. Graves & Sons, tools,	4 25
H. Rude Co., paste,	6 80
Hampden Paint and Chemical Co., sulphate,	1 70
W. O. Sheldon, beef suet,	1 48
Chas. E. Hayes, electrical work,	21 00
John Swaine, blacksmithing,	15 70
Fred L. Ward, services,	20 00
S. L. Dupuis, refund of fee,	5 00
Frank E. Moulton, refund of fee,	5 00
Mrs. F. D. Smith, refund of fee,	5 00
Albert Anderson, refund of fee,	5 00
Timothy Bailey, refund of fee,	6 67
Chas. A. Gilmore, refund of fee,	8 00
James Bligh, refund of fee,	5 00
Amount carried forward,	$3,516 82

Amount brought forward,	$3,516 82	
Jos. Finklestein, refund of fee,	5 00	
Chas. Partridge, refund of fee,	5 00	
Peter J. Connors, refund of fee,	5 00	
Francis A. Linnehan, refund of fee,	5 00	
R. C. Palmer, refund of fee,	5 00	
Harold A. Strickland, refund of fee,	5 00	
John Laughlin, refund of fee,	4 50	
Colin M. Holmes, refund of fee,	4 00	
Charles F. Warner, cash paid,	3 35	
Springfield Union, advertising,	2 55	
Republican Co., advertising,	2 00	
Daily News Publishing Co., advertising,	1 50	
Total payments,	$3,564 72	
Transferred to Technical High School,	1,300 00	
To contingent account,	8 78	
		$4,873 50

Cr.

By appropriation,	$3,000 00	
Transferred from Technical High School,	40 00	
From Collector: tuition,	1,833 50	
		$4,873 50

Schools, Kindergarten.

Teachers' salaries,	$14,627 94
Milton Bradley Co., supplies,	239 62
A. W. Richards & Co., blocks,	123 75
Bertha McConkey, piano,	80 00
J. L. Hammett Co., water colors,	16 25
Florence Co., peg boards,	12 50
C. H. White & Co., felt,	7 50
Forbes & Wallace, spoons,	6 04
W. D. Kinsman Co., yarn,	3 33
Amount carried forward,	$15,116 93

Amount brought forward,	$15,116 93	
Henry R. Johnson, toys,	1 60	
Stillman B. Call, toys,	30	
Maynard Rubber Corporation, tips,	90 40	
Cheshire White Quartz Sand Co., sand,	25 00	
Meekins, Packard & Wheat, screens,	16 55	
J. H. Williams Wall Paper Co., silk fiber,	1 00	
A. O. Alden, drum heads,	1 00	
Smith & Murray, burlap,	75	
O. H. Dickinson, peas,	75	
Springfield Lumber Co., lumber,	17 78	
F. M. West Box Co., lumber,	7 00	
F. L. Hewes & Co., paint,	3 40	
T. W. Gilbert, wall paper,	75	
Geo. A. Graves & Sons, hardware,	5 33	
Franklin Crayon Co., crayon,	3 44	
Springfield Newspaper Co., supplies,	30	
Sundry persons, mopping,	303 20	
Minnie M. Spear, making balls,	18 70	
Frank Parent, carpenter work,	5 62	
Desire Decarie, carpenter work,	2 06	
W. H. Pooley, painting,	3 69	
J. P. Donovan, painting,	3 00	
John Donovan, painting,	3 00	
P. H. Murphy, painting,	1 87	
A. D. Hollister & Co., repairs,	95	
John W. Russell, repairs,	50	
Wilbur F. Gordy, cash paid,	28 00	
Total payments,	$15,662 87	
To contingent account,	337 38	
		$16,000 25

Cr.

By appropriation,	$16,000 00	
Duplicate approval,	25	
		$16,000 25

Schools, City Property Committee.

Janitors' pay roll,	$32,098	34
Janitors, cash paid for shoveling snow,	300	45
George A. Courier, clerical work,	227	25
Alice Gallaway, typewriting,	1	20
Miss Clara E. Towne, matron,	22	50
M. S. Converse Co., coal,	13,674	99
Moses Ehrlich Coal Co., coal,	10,755	15
G. H. Shores, charcoal,	379	64
E. L. Bates, wood,	6	50
United Electric Light Co., motor service and lights,	3,267	41
Springfield Gas Light Co., gas,	664	52
Hartford Steam Boiler Inspection and Insurance Co., premiums,	265	20
Springfield Consolidated Ice Co., ice,	26	61
New England Telephone and Telegraph Co., service,	16	64
Walks and Curbing, macadam,	300	17
Highways and Bridges, macadam,	127	69
Geo. A. Graves & Sons, hardware,	137	55
Homer Foot & Co., hardware,	16	40
O. C. Alderman, hardware,	12	18
J. Douglas Law, hardware,		40
Meekins, Packard & Wheat, cabinet,	202	00
Maynard Rubber Corporation, hose,	57	27
E. J. Streeter, lawn trimmers,	18	00
Springfield Waste Co., waste,	4	73
C. E. Brown, salt,	3	00
H. W. Carter & Co., bags,	1	04
S. D. Viets Co., fertilizer,	96	67
Water Works, connections,	36	31
Sackett Bros., labor,	639	30
Reynolds & Co., labor,	355	89
Ernest T. Richards, labor,	52	81
Frank Whitbeck, labor,	16	00
Geo. Bedore, labor,	12	50
Amount carried forward,	$63,796	31

Amount brought forward,	$63,796 31
Mrs. Lottie Merrill, labor,	12 50
F. M. Marsh, labor,	8 50
Angelo Profiglio, labor,	5 00
Mrs. G. S. Viggers, labor,	5 00
Chas. Clark, labor,	4 00
E. H. Newell, labor,	3 70
Patrick Riley, labor,	2 00
Geo. H. Hill, labor,	1 00
Cyrus M. Tillson, weighing coal,	81 00
J. W. Rochford, resurfacing walks,	45 00
Armory Hill Steam Carpet Cleaning Co., cleaning carpets,	21 74
Blair Mfg. Co., repairs,	10 95
Wm. G. Adams, repairs,	6 25
John W. Russell, sharpening mowers,	9 25
H. Ford, sharpening mowers,	6 20
T. W. Hamilton, sharpening mowers,	3 85
H. J. Parent, painting,	1 75
J. W. Adams, trimming hedge,	1 40
Springfield Printing and Binding Co., printing,	11 87
J. G. Lutz, letter heads,	7 50
Henry R. Johnson, stationery,	4 16
Forbes & Wallace, bill files,	64
Daily News Publishing Co., advertising,	3 50
Springfield Union, advertising,	3 00
Republican Co., advertising,	2 10
S. J. Cordner Co., oil,	5 50
E. A. Adams, oil,	60
Arthur A. Call, oil,	15
A. F. H. Pillsbury, cash paid,	14 90
W. C. Marsh, cash paid,	7 00
E. W. Lathrop, cash paid,	3 00
Thomas M. Collins, cash paid,	3 00
Geo. E. Fisk, cash paid,	50
W. F. McCray, cash paid,	22
City Engineering Department, services,	2 63
Amount carried forward,	$64,095 67

Amount brought forward,	$64,095 67	
F. S. Valentine, drawing and spreading macadam,	108 03	
Isaac Callahan, cartage,	9 75	
Louis O. Geling, cartage,	5 00	
Warren & Hubbard, cartage,	4 00	
Total payments,	$64,222 45	
To contingent account,	509 39	
Transferred to Schoolhouse Repairs,	1,000 00	
		$65,731 84

Cr.

By appropriation,	$60,000 00	
Transferred from contingencies,	5,000 00	
City Treasurer: rentals of High School hall,	580 00	
Collector: bills collected,	151 84	
		$65,731 84

Schoolhouse Repairs.

A. H. Andrews Co., furniture,	$1,523 81
Meekins, Packard & Wheat, furniture,	1,001 52
Forbes & Wallace, furniture,	139 05
D. Webster Allen, furniture,	98 74
Massachusetts Fan Co., motor,	362 48
Allen Shade Holder Co., shades,	172 29
Smith & Murray, linoleum,	150 73
Jacobus Pneumatic Ink Well Co., ink wells,	96 56
F. E. Ladd, clocks,	95 91
J. H. Miller, blackboards,	37 44
Lambert Drinking Fountain. Co., drinking fountain,	27 00
W. & L. E. Gurley, anemometer,	23 35
Charles Hall, mantles,	10 30
Springfield Gas Light Co., mantles,	7 00
Perfection Grate Co., grates,	487 50
Starr Brass Mfg. Co., safety valves,	241 50
Amount carried forward,	$4,475 18

Amount brought forward,	$4,475 18
Chamberlain Metal Weather Strip Co., weather strips,	192 87
Cheney Bigelow Wire Works, wire guards,	93 00
Boston Electric Co., electrical supplies,	70 86
Benj. F. Earl, window stages,	25 00
Burgin Bros., awning,	6 50
Maynard Rubber Corporation, packing,	5 91
Hitchcock Supply Co., felt,	14 89
Goodyear Rubber Store, rubber,	2 94
D. J. Curtis, slate,	2 88
Chas. P. Alden & Son, soda ash,	9 15
Standard Temperature Regulator Co., diaphragms,	90
Charles E. Hayes, ammonia,	7 61
F. L. Hewes & Co., paint and glass,	492 43
D. W. Mellen & Co., paint,	3 55
T. M. Walker & Co., glass,	82 47
J. C. Jones & Co., glass,	56 43
C. C. Spencer, glass,	35 82
Hampden Lumber Co., lumber,	456 43
Springfield Lumber Co., lumber,	349 17
C. P. Chase & Co., lumber,	186 84
City Lumber Co., lumber,	144 68
E. S. Decker Lumber Co., lumber,	92 77
Homer Foot & Co., hardware,	302 69
Geo. A. Graves & Sons, hardware,	241 79
J. Douglas Law, hardware,	130 98
H. W. Stacy, hardware,	80 68
J. Mortimer Hall, hardware,	25 11
O. O. Alderman, hardware,	3 91
Chas. C. Lewis Co., hardware,	84
B. G. Bacon, hardware,	50
William R. Winn, oil,	76 77
Crew, Levick Co., oil,	15 25
Springfield Iron Works, iron,	13 44
M. A. Maynard, pipe,	9 31
Springfield Waste Co., waste,	5 08
Amount carried forward,	$7,714 63

Amount brought forward,	$7,714 63
Bowman & Gregg, electrical work,	1,070 06
Hawes & Gray, electrical work,	210 14
P. O. Fitzpatrick, electrical work,	151 94
Starr Electric Co., electrical work,	107 66
Thomas H. Morin, electrical work,	4 35
Springfield Electric Co., electrical work,	2 20
Sundry persons, painting,	885 00
Wm. H. Pooley, painting,	556 34
Wadsworth, Howland & Co., painting,	247 15
J. J. Gould, painting,	176 16
Geo. Miller, painting,	46 69
A. G. Hope, painting,	40 13
John Donovan, painting,	29 44
S. B. Darling, painting,	29 06
W. H. Leonard, painting,	27 94
Orchard Decorating Co., painting,	18 00
Edward Hahn, painting,	18 00
E. R. Smith, lining blackboards,	106 60
A. W. Atkins, papering,	91 41
J. N. Shepherd, whitewashing,	58 00
Thomas Pollard, whitewashing,	18 50
Alexander Anderson, whitewashing,	17 00
Wm. M. Hughes, whitewashing,	8 00
Allen Tolman Co., slating,	3 50
O. S. Thayer, setting glass,	39 34
Winslow B. Morse, setting glass,	2 87
Peter Burke, mason work,	374 95
James F. Dineen, mason work,	173 90
Wm. H. Walters, mason work,	160 37
R. E. & A. M. Davis, mason work,	157 19
Morgan D. O'Connell & Co., mason work,	133 55
James F. Behan, mason work,	68 36
D. W. Mellen, mason work,	47 87
Alex. Patrie, mason work,	9 50
Frank Parent, carpenter work,	720 75
Desire Decarie, carpenter work,	678 22
Albert McCollock, carpenter work,	102 00
Amount carried forward,	$14,306 77

Amount brought forward,	$14,306 77
A. J. Gregoire, carpenter work,	46 87
Arthur Barnard, carpenter work,	30 00
W. A. Newton & Co., carpenter work,	24 74
Brooks & Shea, carpenter work,	6 24
E. G. Bates, plumbing,	836 87
Zedoc C. Clapp, plumbing,	504 44
G. B. Moore, plumbing,	347 16
L. P. Page & Co., plumbing,	136 31
J. W. Kennely, plumbing,	124 60
Neylon Bros., plumbing,	107 16
Austin J. Pratt, plumbing,	91 28
Geo. Smith & Co., plumbing,	91 17
W. T. Eaton, plumbing,	91 03
J. Stuart Kirkham, plumbing,	80 61
N. E. Marvin, plumbing,	68 75
R. J. Moreton, plumbing,	58 86
D. D. Casey, plumbing,	54 78
Oliver & Howland Co., plumbing,	52 69
Wheelden & Gallup, plumbing,	46 07
H. J. Pratt & Co., plumbing,	37 77
James F. Walls, Jr., plumbing,	29 48
Donahue Bros., plumbing,	17 40
J. J. Cotter Plumbing and Heating Co., plumbing,	14 73
Smith & Cotter, plumbing,	2 80
Simpson Clark, plumbing,	1 60
Morris & Maloney, piping,	85 23
Fred A. Bicknell, piping,	79 39
E. M. Porter, piping,	51 79
Wyckoff & Lloyd Co., piping.	21 11
Wm. J. Hyland, piping,	1 25
Geo. H. McClean, balance on heating contract,	58 07
Wm. G. Adams, labor,	167 75
E. H. Newell, labor,	45 90
Frank Whitbeck, labor,	31 40
Benj. Sibley, labor,	28 50
Angelo Profiglio, labor,	16 12
Amount carried forward,	$17,796 69

Amount brought forward,	$17,796	69
H. Udell Pease, labor,	12	35
John P. Donovan, labor,	12	00
Geo. H. Hill, labor,	5	80
P. H. Murphy, labor,	3	00
James F. Walls, labor,	2	80
Arthur Johnson, labor,	2	25
Fred Garrison, labor,	2	25
A. B. Cutler, labor,	2	00
Reynolds & Co., grading,	52	05
Sackett Bros., grading,	32	01
J. W. Rochford, concrete walk,	6	00
Robert Wilson, iron work and repairs,	605	17
H. Ford, blacksmithing,	304	75
J. F. McCormick, roof repairs,	282	02
Walsh Boiler and Iron Works, repairs,	211	38
Wm. E. Clark, repairs,	153	90
Geo. R. Estabrook, repairs,	87	10
T. E. Quinn, repairs,	86	88
Johnson Service Co., repairs,	73	65
John McCleary & Sons, roof repairs,	50	93
Carter Electric Co., repairs,	13	90
Gilbert & Barker Mfg. Co., repairs,	12	00
F. E. Ladd, repairs,	5	25
James T. Shaftoe, repairs,	4	75
Henry Clay, repairs,	3	85
Deane Steam Pump Co., repairs,	3	84
Water Works, repairs,	3	67
Geo. W. Hall, repairs,	3	00
A. D. Elmer, repairs,	2	85
P. J. Mullen, repairs,	2	20
E. B. Keene, repairs,	2	00
E. M. Bugbee, repairs,	2	00
Benj. Powell, repairs,	1	25
Chas. J. Short, cutting blackboards,	72	45
James C. Miln & Co., stone cutting,	4	00
John W. Russell, blacksmithing,	61	25
James Potvin, blacksmithing,	13	75
Amount carried forward,	$19,996	99

Amount brought forward,	$19,996 99	
H. M. Stacy, blacksmithing,	11 00	
N. L. Byron, blacksmithing,	6 35	
Geo. W. Taylor, lock work,	23 00	
L. R. Allard, lock work,	12 85	
J. H. Gifford, lock work,	1 10	
George A. Courier, clerical work,	180 00	
Alice Gallaway, typewriting,	9 05	
H. L. Dorman, cash paid,	14 38	
Ora L. Batchelder, cash paid,	2 15	
H. N. Bowman, cash paid,	1 35	
O. J. Tarbox, cash paid,	1 00	
E. Meagher, cash paid,	50	
H. D. Pease, cash paid,	30	
B. R. Barnes, cash paid,	20	
Hartford Steam Boiler Inspection and Insurance Co., premiums,	88 05	
F. F. Small & Co., insurance,	50 00	
E. C. & G. C. Gardner, drawings,	12 00	
Elektron Mfg. Co., inspecting motor,	1 00	
United Electric Light Co., carbons and lamps,	20 44	
Standard Electric Time Co., ribbons,	1 52	
H. P. Ferre, stamp,	1 00	
B. Tanner, cartage,	102 94	
Isaac Callahan, cartage,	74 81	
Henry A. Day, cartage,	46 34	
T. Shea, trucking,	12 00	
Warren & Hubbard, expressage,	1 15	
Total payments,	$20,671 47	
To contingent account,	9 82	
		$20,681 29

Cr.

By appropriation,	$17,500 00	
Transfer from contingent account,	1,835 20	
Transfer from Schools, City Property Committee account,	1,000 00	
H. L. Dorman, Agt., sale of old iron, glass, etc.,	145 12	
Collector: sundry collections,	200 97	
		$20,681 29

Schoolhouse, Howard Street. (Completed.)

Jerry Shea & Son, balance of building contract,	$10,508	86
Hawes & Gray, balance heating and ventilating contract,	3,577	00
Kirkham & Parlett, architects,	750	00
Donahue Bros., balance plumbing contract,	1,994	20
American School Furniture Co., desks and chairs,	1,242	20
Meekins, Packard & Wheat, desks and chairs,	163	88
Charles Hall, gas fixtures,	575	00
Allen Shade Holder Co., shades,	310	73
J. Douglas Law, hardware,	468	00
Wm. J. Hyland, hardware,	37	50
Homer Foot & Co., hardware,	17	34
O. C. Alderman, hardware,	2	50
Hampden Lumber Co., lumber,	234	00
E. A. Blodgett Lumber Co., lumber,	90	18
Springfield Lumber Co., lumber,	26	91
Walks and Curbing, material,	42	38
Springfield Gas Light Co., pipe,	13	80
Maynard Rubber Corporation, hose,	5	00
F. L. Hewes & Co., paint,	4	85
Wadsworth, Howland & Co., alcohol,		20
Douglas Sprague, legal services,	41	50
J. M. Ropes, legal services,	38	00
C. F. Crosby, legal services,	32	50
Michael Maloney, mason work,	480	67
Sackett Bros., grading,	374	80
Highways and Bridges, catch basin and connections,	132	85
Bowman & Gregg, wiring,	126	00
Frank Parent, carpenter work,	67	49
Desire Decarie, carpenter work,	53	28
Albert McCollock, carpenter work,	22	50
Wm. H. Pooley, painting,	50	25
W. E. Watts, Agt., fence,	31	50
Amount carried forward,	$21,515	87

Amount brought forward,	$21,515 87	
Wm. G. Adams, care of boiler,	163 00	
City Engineering Department, services,	19 30	
United Electric Light Co., labor,	26 00	
P. H. Clark, labor,	23 75	
Mass. Fan Co., labor,	21 73	
Frank Whitbeck, labor,	11 50	
A. R. Dwight, labor,	9 37	
Joseph H. Gray, labor,	5 88	
George Hall, labor,	5 88	
E. H. Newell, labor,	3 30	
Tony Carto, labor,	2 75	
Albert Profiglio, labor,	2 25	
A. J. Gregoire, labor,	1 50	
Angelo Profiglio, cleaning,	4 75	
Mrs. A. Rogers, cleaning,	2 25	
Mrs. Keegan, cleaning,	2 25	
Mrs. K. Shea, cleaning,	2 25	
Mrs. Emmil, cleaning,	2 00	
Mrs. B. Shean, cleaning,	2 00	
B. Tanner, cartage,	65 45	
L. H. Richards, cartage,	4 85	
M. J. Clark, cash paid,	12 00	
Total payments 1906,	$21,909 88	
Total payments 1905,	55,396 83	
Transferred to Schoolhouse Repairs,	289 24	
		$77,595 95

Cr.

By sale of Elm street school lot to the county of Hampden,	$75,000 00	
Sale at auction of Elm street school building,	580 00	
Sundry receipts 1905,	15 95	
Appropriation 1906,	2,000 00	
		$77,595 95

Schoolhouse, North Street. (Not Completed.)

John W. Adams, land for schoolhouse,	$5,000 00	
Jonathan Short, land for schoolhouse,	4,000 00	
Marvin C. Birnie and others, land for schoolhouse,	2,400 00	
Total payments,		$11,400 00

Cr.

By appropriations,	$11,400 00	
		$11,400 00

Schoolhouse, Sumner Avenue. (Not Completed.)

E. R. Burgess, land on Sumner avenue,	$11,500 00	
A. W. Atkins, papering,	17 34	
Water Works, water rents,	14 00	
H. Rude Co., receipt book,	25	
Loring-Axtell Co., cards,	20	
Total payments,	$11,531 79	
Balance unexpended,	115 68	
		$11,647 47

Cr.

By appropriation,	$11,500 00	
H. L. Dorman: rents from property on Sumner avenue,	147 47	
		$11,647 47

School Street School Addition. (Not Completed.)

Francis M. Tinkham, land and building on School street,	$9,000 00	
Total payments,		$9,000 00

Cr.

By appropriation,	$9,000 00	
		$9,000 00

Sewers and Drains.

Superintendent's pay roll,	$22,003 22	
		$22,003 22

MISCELLANEOUS.

H. O. Buck, assistant superintendent of streets and sewers,	$825 00	
H. O. Buck, cash paid,	19 35	
Michael Roane, assistant superintendent of streets and sewers,	200 00	
City Engineering Department, services,	312 84	
S. D. Viets Co., cement and pipe,	6,179 45	
H. C. Puffer Co., cement,	971 89	
James J. Griffin, cement,	1 00	
Standard Brick Co., brick,	1,292 66	
Walks and Curbing, brick,	48 23	
Hampden Lumber Co., lumber,	682 06	
Springfield Lumber Co., lumber,	24 10	
C. P. Chase & Co., lumber,	16 58	
E. S. Decker Lumber Co., pipe,	665 80	
M. A. Maynard, pipe,	87 48	
W. T. Eaton, pipe,	84 17	
Robert Wilson, pipe,	1 55	
Davitt Iron Foundry, castings,	584 95	
Springfield Foundry Co., castings,	167 08	
H. L. Bond Co., couplings,	95 74	
Edson Mfg. Co., couplings,	69 21	
E. Stebbins Mfg. Co., couplings,	3 25	
Maynard Rubber Corporation, hose,	158 25	
Springfield Iron Works, sewer steps,	104 38	
C. C. Lewis Co., rope,	70 42	
J. Douglas Law, hardware,	54 95	
Geo. A. Graves & Sons, hardware,	26 04	
Mortimer J. Hall, hardware,	2 00	
Perrin, Seamans & Co., tools,	36 00	
Irland Pipe Wrench Co., tools,	9 00	
W. A. Newton & Co., tools,	6 55	
Amounts carried forward,	$12,799 98	$22,003 22

Amounts brought forward,	$12,799 98	$22,003 22
C. C. Marshall, patterns,	66 94	
N. S. Beebe, pails,	52 00	
Hampden Cornice Works, pails,	19 80	
L. P. Page & Co., pails,	1 15	
Pacific Flush Tank Co., siphon,	49 00	
D. F. McCarthy, lantern holders,	18 00	
Chas. Hall, globes,	15 60	
Houghton & Fraser, excelsior,	7 79	
Edward A. Nelson, powder, etc.,	1 40	
Smith & Hubbell, concord and repairs,	277 00	
Ira Johnson, brown mare,	225 00	
A. Chisholm, harness supplies,	61 40	
S. J. Wright, harness supplies,	22 05	
V. E. Moore, feed,	286 05	
Franklin Harder, feed,	85 25	
Van Deusen & Foley, feed,	63 00	
L. A. Richards, hay,	10 86	
John W. Wilder, oats,	7 60	
Cutler & Porter, boots,	70 01	
McIntosh & Co., boots,	45 83	
Chas. Bengle, boots,	20 00	
Goodyear Rubber Store, gloves,	1 25	
Carter & Cooley, cheese cloth,	58 27	
J. A. Burke, cheese cloth,	7 45	
Gilbert & Barker Mfg. Co., gasoline,	23 05	
S. J. Cordner Co., oil,	21 64	
H. H. Colwell & Co., oil,	1 77	
Springfield Gas Light Co., coke,	12 75	
Moses Ehrlich Coal Co., coal,	7 00	
Wight-Thayer Co., wood,	5 00	
Highways and Bridges, labor and material,	910 24	
Water Works, flushing sewers,	850 45	
Henry W. Fitch, horse shoeing,	140 60	
Morgan Bros., horse shoeing,	88 69	
W. B. Spencer, horse shoeing,	50 00	
P. H. Quinn, horse shoeing,	35 80	
Amounts carried forward,	$16,419 67	$22,003 22

Amounts brought forward,	$16,419 67	$22,003 22
James Healey, horse shoeing,	14 25	
Richard McCarthy, horse shoeing,	4 50	
James Potvin, blacksmithing,	81 44	
C. J. Bailey, blacksmithing,	22 80	
John Swaine, blacksmithing,	19 51	
M. E. Streeter, blacksmithing,	9 93	
James Flynn, blacksmithing,	4 40	
Geo. Mackintosh, blacksmithing,	2 60	
Geo. M. Burnham, carpenter work,	15 53	
John C. O'Donald, carpenter work,	13 50	
T. B. Gilbert, carpenter work,	1 75	
T. W. Gilbert, papering,	19 23	
Wyckoff & Lloyd Co., piping,	18 41	
E. M. Porter Co., piping,	9 07	
D. W. Mellen, mason work,	7 35	
Harry W. Stacy, machine work,	3 94	
J. Stuart Kirkham, furnace work,	3 90	
Thos. R. O'Brien, wagon repairs,	31 98	
N. L. Byron, wagon repairs,	21 75	
M. J. Dunn & Co., wagon repairs,	5 65	
C. H. O'Connell, sewer repairs,	13 00	
Jos. J. Bloom, boot repairs,	22 45	
Samuel B. Brooslin, boot repairs,	2 70	
Springfield Printing and Binding Co., printing,	63 43	
Library Bureau, cards,	4 00	
Henry R. Johnson, paper,	2 00	
Macmillan Book Co., index book,	1 00	
E. D. Kelso, refund of labor fee,	10 00	
F. H. Sanborn, inspecting boiler,	5 00	
J. Huliston, metered water,	4 00	
Geo. C. Tait, use of horse,	33 33	
Jewett Wright, use of horse,	21 00	
Geo. H. Gould, livery,	25 00	
E. H. Holden, veterinary services,	27 00	
P. R. Hadlock, clipping horses,	5 00	
Warren & Hubbard, expressage,	1 65	
Amounts carried forward,	$16,971 72	$22,003 22

Amounts brought forward,	$16,971 72	$22,003 22
Boston and Maine Railroad Co., freight,....	4 54	
Boston and Albany Railroad Co., freight,...	54	
		16,976 80
Total payments, ...		$38,980 02
To contingent account,..............		607 02
		$39,587 04

Cr.

By appropriation, ...	$28,000 00	
Sewer entrance fees,.................	10,601 19	
Collector: for labor and material,....	985 85	
		$39,587 04

Soldiers' Relief. Chapter 79, Revised Laws.

Sundry persons, aid rendered under above act,	$1,358 50
Springfield Hospital, board and care,.......	176 00
George Lamberton, board and care,........	138 00
Town of West Springfield, board and care,..	62 25
Town of Westfield, board and care,.........	42 00
G. M. Gould, care,.......................	41 00
Mrs. Wm. Walker, board and care,..........	21 44
Mercy Hospital, board and care,...........	21 00
Mrs. G. M. Gould, care,..................	9 00
Emerett Beckwith, care,..................	6 00
Rood & Woodbury, groceries,..............	449 10
W. C. Belden, Jr., groceries,...............	156 26
D. H. Griffin, groceries and meat,...........	58 50
D. Warner & Son, groceries,................	30 60
Houlihan & Leary, groceries,...............	10 63
Chas. A. Wright, groceries,................	8 00
D. F. Hernon, groceries,....................	7 28
Cashman & Frost, groceries,...............	6 00
H. B. Frost, groceries,......................	2 00
Amount carried forward,	$2,603 56

Amount brought forward,	$2,603 56	
G. E. Edwards, groceries,	2 00	
Gowdy & Remington Shoe Co., shoes,	14 28	
Morse & Haynes, shoes,	2 85	
Smith & Murray, dry goods,	11 45	
Springfield Coal and Wood Co., coal and wood,	291 75	
Pauper Department, wood,	23 00	
Halstead & Pearson, coal,	17 50	
Dexter, Root Co., coal,	15 20	
S. Richard Carlisle, coal,	13 65	
E. F. Leonard & Co., medicine,	47 40	
T. F. Murphy, medicine,	31 64	
Chas. V. Ryan, medicine,	20 71	
J. J. Sullivan Est., medicine,	9 95	
D. F. Keefe, medicine,	9 09	
Chas. S. Sexton, medicine,	4 46	
J. H. Beauvais, medicine,	2 82	
E. A. Richmond, medicine,	2 05	
F. N. Wheeler & Co., medicine,	65	
James L. Bowen, secretary State and Military Aid Committee,	600 00	
James L. Bowen, cash paid,	17 00	
Springfield Printing and Binding Co., printing,	16 00	
Total payments,	$3,757 01	
To contingent account,	6 72	
		$3,763 73

Cr.

By appropriation,	$3,500 00	
Collector: sundry towns reimbursement of relief rendered,	263 73	
		$3,763 73

Soldiers' and Sailors' Burials. Chapter 79, Revised Laws.

Washburn Undertaking Establishment, burials under above law,	$175 00	
C. J. Roadstrand Co., burials under above act,	105 00	
Cadwell & Perry, burials under above act,	70 00	
John H. Clune, burials under above act,	70 00	
Francke W. Dickinson, burial under above act,	35 00	
T. F. Broughall, burial under above act,	35 00	
Expended in 1906, charged to Commonwealth of Massachusetts,		$490 00

South End Bridge, Separation of Grades. (Completed.)

Clarence A. Bartholomew, land damages on South street,	$7,000 00
Charles C. Lewis, land damages on South st.,	800 00
George E. Jones, auditor's services,	29 09
Albert A. Ball, witness fee,	15 00
Allyn G. Bridge, witness fee,	15 00
George M. Burnham, witness fee,	15 00
L. V. B. Cook, witness fee,	15 00
Wm. H. Dexter, witness fee,	15 00
Geo. W. Fairfield, witness fee,	15 00
Edward A. Hall, witness fee,	15 00
T. W. Leete, witness fee,	15 00
Fred T. Ley, witness fee,	15 00
Chas. M. Mather, witness fee,	15 00
John McFethries, witness fee,	15 00
Geo. Quance, witness fee,	15 00
James W. Moore, witness fee,	10 00
P. T. Malone, witness fee,	5 00
V. M. Frost, livery,	5 50
Expended in 1906,	$8,029 59
Expended in 1905,	6,354 47
Amount carried forward,	$14,384 06

Amount brought forward,	$14,384 06	
Expended in 1904,	1,389 05	
Expended in 1903,	16,573 22	
Expended in 1903 and 1904 in South End Bridge Raising account, and allowed in first audit as part of the expense of the separation of grades,	3,267 00	
Total amount expended by city,	$35,613 33	
Total amount expended by the N. Y., N. H. & H. R. R. Co.,	18,861 03	
		$54,474 36

Cr.

N. Y., N. H. & H. R. R. Co., 65 per cent of total cost,	$35,408 33	
Commonwealth of Massachusetts, 35 per cent of total cost,	13,618 59	
City of Springfield, 10 per cent of total cost,	5,447 44	
		$54,474 36

Technical High School.

Teachers' salaries,	$22,272 50
Ginn & Co., books,	356 33
Edward Babb & Co., books,	254 09
Taylor-Holden Co., books,	137 20
Houghton, Mifflin & Co., books,	100 01
D. C. Heath & Co., books,	84 45
Allyn & Bacon, books,	82 40
Henry Holt & Co., books,	52 39
American Book Co., books,	49 24
Maynard, Merrill & Co., books,	43 90
Macmillan Co., books,	35 74
Benj. H. Sanborn Co., books,	18 94
J. L. Hammett Co., books,	18 00
John Wiley & Sons, books,	10 60
Wm. R. Jenkins, books,	10 60
Amount carried forward,	$23,526 39

Amount brought forward,	$23,526 39
Sibley & Co., books,	5 21
D. Van Nostrand Co., books,	3 72
Thos. Nelson & Sons, books,	2 80
Dodd, Mead & Co., books,	1 80
Doubleday, Page & Co., books,	1 50
D. Appleton & Co., book,	1 31
Chas. Scribner's Sons, book,	1 23
Rand, McNally & Co., book,	43
H. Rude Co., stationery,	213 31
Schapiograph Co., paper,	7 00
R. E. Mathewson, paper,	4 65
Bunkio Matsuki, paper,	3 50
H. W. Carter & Co., paper,	2 16
Springfield Printing and Binding Co., printing,	179 06
McKinley Publishing Co., maps,	17 25
Eugene Dietzgen, supplies,	76 55
Milton Bradley Co., supplies,	26 70
Holden Patent Book Cover Co., supplies,	15 00
Wm. W. Hastings, supplies,	10 30
Bay State Paper Co., supplies,	8 29
William Woods Co., supplies,	3 00
Geo. G. Ware, supplies,	2 70
Adele M. Smith, supplies,	1 46
Henry R. Johnson, erasers,	21 75
Eagle Pencil Co., dividers,	18 00
Library Bureau, cards,	11 27
H. P. Ferre, stamps,	35
Eimer & Amend, laboratory supplies,	183 41
L. E. Knott Apparatus Co., laboratory supplies,	133 72
Forbes & Wallace, sewing machines,	175 12
Smith Premier Typewriter Co., typewriter,	78 95
Hampden Lumber Co., lumber,	384 08
Mrs. B. W. Hunn, lumber,	105 14
C. A. Bartholomew, lumber,	3 00
C. C. Lewis Co., hardware,	330 61
Amount carried forward,	$35,560 72

Amount brought forward,	**$35,560 72**
Geo. A. Graves & Sons, hardware,	204 68
J. Douglas Law, hardware,	96 28
Chandler & Barber, hardware,	13 96
E. C. Atkins & Co., hardware,	6 24
Homer Foot & Co., hardware,	4 44
O. C. Alderman, hardware,	2 50
H. W. Stacy, pulleys,	196 71
E. S. Stacy Machine Co., pulleys,	23 92
Wyckoff & Lloyd Co., fittings,	157 60
Hitchcock Supply Co., fittings,	3 95
Springfield Foundry Co., castings,	24 88
Davitt Iron Foundry, castings,	8 74
Hampden Brass Co., castings,	1 66
Elektron Mfg. Co., plugs, etc.,	23 90
W. C. Toles Co., vises,	20 40
John Swaine, brackets,	4 89
Pratt & Whitney Co., cutters,	7 35
Brown & Sharp Mfg. Co., tools,	1 75
Billings & Spencer Co., tools,	1 26
F. E. Reed Co., tools,	1 00
H. S. Safford, cubes,	10 00
Quimby & Co., water cooler,	10 00
New England Reed Co., reeds,	6 00
Meekins, Packard & Wheat, tables,	5 40
Goodyear Rubber Store, chair tips,	3 00
Robert Wilson, pans,	1 20
Chas. Hall, mugs,	1 00
Dexter P. Lillie Co., waste,	8 76
F. R. Boardman, dressing,	3 00
L. J. Ball Co., potash,	2 25
D. W. Mellen & Co., paint,	59 38
J. C. Jones & Co., paint,	1 05
M. S. Converse Co., coal,	30 40
William R. Winn, oil,	12 10
H. & J. Brewer, alcohol,	8 15
Chas. P. Alden & Son, alcohol,	2 28
Clyde M. Packard, laboratory assistant,	44 53
Amount carried forward,	$36,575 33

Amount brought forward,	$36,575	33
P. L. Hicks, laboratory assistant,	30	25
R. A. Palmer, laboratory assistant,	20	88
Ralph H. Millett, tool room assistant,	40	35
Leonard J. Dow, tool room assistant,	28	98
Guy W. Sibley, tool room assistant,	18	70
Harold Warner, tool room assistant,	16	85
Stuart D. Coward, tool room assistant,	13	25
Chas. S. Foster, tool room assistant,	9	60
Otto H. Eschholz, tool room assistant,	9	10
N. D. Richardson, tool room assistant,	8	95
A. B. Cutler, tool room assistant,	8	75
J. R. Gould, tool room assistant,	6	25
Raymond A. Denslow, drawing room assistant,	26	20
H. L. Badger, drawing room assistant,	19	03
Earl Swan, drawing room assistant,	8	55
O. R. Thayer, drawing room assistant,	4	60
Ralph A. Parker, services,	23	55
C. H. Huestis, services,	21	53
Walter Johnson, services,	17	98
L. T. Manning, services,	11	80
Geo. E. Pease, services.	9	70
J. T. Cullen, services,	9	40
E. B. Lewis, services,	6	35
Franklin M. Stibbs, services,	1	70
R. M. Mowrey, services,	1	48
Reginald Baker, services,	1	25
Fred W. Lane, services,		80
Sidney A. Parker, services,		40
Springfield Electric Co., electrical work,	56	51
Otis Elevator Co., electrical work,	37	35
Wm. J. Hyland, piping,	24	70
Oliver & Howland Co., piping,	24	04
Chas. E. Hayes, repairs,	13	12
Frank Parent, carpenter work,	3	00
J. Stuart Kirkham, iron work,	1	50
Springfield Lumber Co., sharpening saws,		90
Amount carried forward,	$37,112	68

Amount brought forward,	$37,112 68	
W. H. Pooley, varnishing,	62	
Corbin Cabinet Lock Co., lock repairs,	47	
E. W. Oatley & Co., carting,	106 70	
C. F. & H. W. Margeson, carting,	40 50	
Mary E. Hart, secretary,	450 00	
Chas. F. Warner, cash paid,	93 57	
W. F. Gordy, cash paid,	20 57	
Dr. T. N. Seerley, cash paid,	8 63	
J. Gilbreath, cash paid,	2 05	
E. A. Finch, cash paid,	2 05	
United Electric Light Co., lights,	160 85	
Springfield Gas Light Co., gas,	17 58	
New England Telephone and Telegraph Co., service,	2 00	
John D. Gill, ice,	46 52	
Springfield Consolidated Ice Co., ice,	72	
Total payments,	$28,065 51	
Transferred to Evening Trade School,	40 00	
To contingent account,	23 35	
		$28,128 86

Cr.

By appropriation,	$22,000,00	
Transferred from Schools,	3,190 00	
Transferred from Evening Trade School,	1,300 00	
Collector: tuition, etc.,	1,474 55	
W. F. Gordy, Supt.: old iron and material sold, etc.,	164 31	
		$28,128 86

Technical High School Building. (Not Completed.)

D. W. Mellen, on account of contract,	$58,577	47
Evans, Almirall Co., account heating contract,	11,406	33
Wm. J. Hyland, contract plumbing and piping,	5,418	08
Zedoc C. Clapp, piping,	596	77
Wyckoff & Lloyd Co., piping,	238	04
Springfield Electric Co., wiring contract,	4,230	50
Brown Corliss Engine Co., balance engine contract,	3,553	22
E. C. & G. C. Gardner, plans and supervision,	5,700	00
John D. Williams, plans,	11	00
Doane & Williams, account contract for equipments,	7,750	00
Meekins, Packard & Wheat, furniture,	2,959	42
Kenney Bros. & Wolkens, furniture,	2,777	64
American Seating Co., furniture,	1,988	31
John Pinches Co., cabinets and benches,	1,754	27
American Drafting Furniture Co., cabinets,	347	00
A. G. Chapman, cabinet,	242	50
Blodgett Clock Co., contract electric clock,	1,362	00
Taylor's Music House, piano,	500	00
Merritt & Co., lockers,	421	97
Allen Shade Holder Co., shades,	341	35
Horace T. Phipps & Co., glass,	240	00
Allen Totman Co., umbrella racks,	135	73
J. H. Miller, blackboards,	93	60
Keystone Wire Matting Co., matting,	73	54
Library Bureau, trays and card case,	20	50
Forbes & Wallace, mirrors,	16	20
Maynard Rubber Corporation, chair tips,	15	32
Narragansett Machine Co., gymnasium apparatus,	2,088	82
Elektron Mfg. Co., motors,	2,011	33
Chas. Hall, electrical fixtures,	210	55
Chas. E. Hayes, electrical fixtures,	10	85
Harry W. Stacy, shafts, pulleys, etc.,	787	63
Amount carried forward,	$115,879	94

Amount brought forward,	$115,879 94
F. E. Reed Co., lathes,	680 50
Hampden Cornice Works, ventilator, etc.,	520 90
Johnson Carlyle Machine Co., clutches, etc.,	285 50
Pratt & Whitney Co., pillar and shaper,	210 00
Munder Electric Co., lamps,	187 50
Gorham Co., bronze tablets,	156 00
Cleveland Stone Co., keystones,	110 70
D. E. Whiton Machine Co., chucks,	103 40
Oliver & Howland Co., railing,	83 00
Northampton Emery Wheel Co., grinder,	64 20
W. C. Toles Co., vises,	55 25
Dwight Slate Machine Co., drill,	48 45
Confectioners' Machinery and Mfg. Co., castings,	52 70
Wyckoff & Lloyd Co., valves,	25 05
Hitchcock Supply Co., fittings,	21 04
Steam Appliance Co., cleaner,	15 30
Chas. C. Lewis Co., bench machine,	12 65
Quimby & Co., dishes,	79 90
Geo. A. Graves & Sons, hardware,	2,165 18
Homer Foot & Co., hardware,	53 72
O. C. Alderman, hardware,	24 40
J. Douglas Law, hardware,	30
Hampden Lumber Co., lumber,	1,127 41
Springfield Lumber Co., lumber,	171 89
F. L. Hewes & Co., paint,	125 84
D. W. Mellen & Co., paint,	80 47
Wadsworth, Howland & Co., paint,	78 14
J. C. Jones & Co., paint,	21 01
M. S. Converse Co., coal,	383 62
Springfield Gas Light Co., pipe,	24 00
William R. Winn, oil,	11 30
Springfield Waste Co., waste,	4 38
Chas. P. Alden & Son, vaseline,	45
United Electric Light Co., motor service,	597 87
Hannon & Finton, rent of motor,	112 00
J. G. Roy & Co., carpenter work,	607 42
Amount carried forward,	$124,181 38

Amount brought forward,	$124,181	38
Frank Parent, carpenter work,............	118	14
Desire Decarie, carpenter work,............	109	66
Albert McCollock, carpenter work,..........	27	00
A. J. Gregoire, carpenter work,............	17	63
Sundry persons, painting,.................	394	59
W. H. Pooley, painting,..................	125	71
J. P. Donovan, painting,..................	45	00
W. H. Leonard, painting,..................	45	00
John Donovan, painting,..................	43	50
S. B. Darling, painting,..................	24	38
William Bronson, painting,................	10	50
George Miller, painting,..................	6	75
P. C. Fitzpatrick, electrical work,..........	97	60
Hawes & Gray, electrical work,.............	37	81
W. G. Meade, mason work,.................	59	00
Geo. Smith & Co., piping,.................	50	00
Fred A. Bicknell, piping,..................	15	91
T. M. Walker & Co., lettering,.............	14	75
Sackett Bros., grading,...................	339	10
J. C. Miln & Co., stone carving,............	320	00
John W. Russell, machine work,............	17	10
Brown & Sharp Mfg. Co., machine work,....	14	00
Geo. W. Taylor, lock work,................	8	50
L. G. Dow, lock work,.....................		60
Cheney Bigelow Wire Works, repairs,......	7	50
James Gilbreath, fireman,.................	337	90
Warren L. Cross, fireman,.................	200	20
Charles Clark, cleaning,..................	64	01
W. G. Adams, cleaning,...................	20	75
T. S. Burnett, cleaning,..................	17	38
Iverson Horace, cleaning,.................	11	63
J. N. Shepherd, cleaning,.................	5	13
Lewis H. Moselay, labor,..................	61	50
E. A. Finch, labor,.......................	60	00
E. T. Richards, labor,....................	42	20
Raymond C. Wilson, labor,................	38	02
Benj. Sibley, labor,......................	11	00
Amount carried forward,	$127,000	83

Amount brought forward,	$127,000 83	
E. H. Newell, labor,	10 70	
Frank Whitbeck, labor,	9 10	
Reynolds & Co., labor,	7 00	
Leon A. C. Young, labor,	2 73	
L. T. Manning, labor,	2 45	
George Bedore, labor,	2 00	
Harold McCann, labor,	1 50	
W. R. Chisholm, labor,	1 22	
C. M. Packard, labor,	1 05	
W. Johnson, labor,	1 00	
Howard Abbe, labor,	80	
Thomas Milne, labor,	35	
Technical High School, transfer of bills,	173 72	
H. Rude Co., blue print,	17 14	
Springfield Printing and Binding Co., printing,	4 75	
Republican Co., advertising,	3 30	
Springfield Union, advertising,	2 93	
Daily News Publishing Co., advertising,	1 50	
W. F. Gordy, cash paid,	39 62	
H. L. Dorman, cash paid,	14 17	
H. N. Bowman, cash paid,	5 65	
B. T. Somborger, cash paid,	1 50	
E. A. Newell, cash paid,	75	
City Engineering Department, services,	20 75	
Alice Gallaway, services,	3 50	
L. A. Richards, moving,	291 05	
B. Tanner, freight and cartage,	196 56	
Henry A. Day, cartage,	33 47	
E. W. Oatley & Co., cartage,	6 38	
N. Y., N. H. & H. R. R. Co., freight,	4 00	
Total payments in 1906,	$127,861 47	
Payments in 1905,	163,542 91	
Payments in 1904,	52,112 82	
Balance unexpended,	11,474 99	
		$354,992 19

Cr.

By appropriation from sale of bonds 1905,...	$316,000 00	
By appropriation from sale of bonds 1906,....	26,000 00	
By appropriation of premium on bonds,.....	12,000 00	
Sale of buildings on school site,......	944 57	
Collector: bills collected,.............	13 50	
Sundry other receipts,..............	34 12	
		$354,992 19

Treasury Department.

Eliphalet T. Tifft, City Treasurer and Treasurer of Sinking Fund,................	$2,800 00
Eliphalet T. Tifft, cash paid,...............	223 34
John P. Bishop, deputy treasurer,...........	1,500 00
George W. Rice, Jr., clerk,.................	700 00
Miss Agnes Pope, clerk,..................	12 00
Miss Margaret McCaughan, stenographer,...	683 32
Miss Belle Hicks, stenographer,............	11 38
Mrs. B. K. Southworth, preparing detailed expenditures for Municipal Registers 1905 and 1906, ...	268 00
American District Telegraph Co., burglar alarm service, ...	150 00
New England Telephone and Telegraph Co., service, ...	33 80
Cone & Sherwood, treasurer's bond,.........	120 00
Springfield Safe Deposit and Trust Co., rent of safe deposit box,...................	25 00
J. G. Lutz, engraving checks,..............	173 67
Springfield Printing and Binding Co., printing, ...	126 27
Edward H. Marsh, advertising bond issue,...	63 00
Morgan Envelope Co. Div., pay envelopes,....	30 00
Henry R. Johnson, pens,.................	8 00
H. W. Carter & Co., blotters,...............	5 50
Harry L. Hawes, subscription,.............	5 92
Price & Lee Co., directory,................	4 00
George G. Ware, typewriter,...............	90 00
Amount carried forward,	$7,033 20

Amount brought forward,	$7,033 20	
Forbes & Wallace, money bag,	3 25	
Time Saver Co., register,	2 50	
George H. Gould, team,	4 00	
Total payments,	$7,042 95	
To contingent account,	7 05	
		$7,050 00
Cr.		
By appropriation,	$7,050 00	
		$7,050 00

Union Street Widening. (Not Completed.)

Rachel Duckworth, land for widening,	$3,500 00	
David Davis, land for widening,	1,500 00	
Esther H. Lathrop, land for widening,	1,435 00	
N. D. Winter, auctioneer's services,	55 73	
Total payments,	$6,490 73	
Balance unexpended,	2,594 27	
		$9,085 00
Cr.		
By appropriation,	$6,435 00	
Sale of house and lot,	2,650 00	
		$9,085 00

Walks and Curbing.

Superintendent's pay roll,	$9,726 62	
		$9,726 62

MISCELLANEOUS.

A. Dickinson, curbing,	$3,978 54	
Wm. N. Flynt Granite Co., curbing	1,251 87	
Standard Brick Co., brick,	2,343 57	
C. G. Noel, sand,	142 35	
Chas. H. Annable, sand,	6 00	
Reed Realty Trust Co., sand,	1 00	
James Gerrard, gravel,	6 75	
Amounts carried forward,	$7,730 08	$9,726 62

Amounts brought forward,	$7,730 08	$9,726 62
W. S. Colwell, gravel,	70	
H. C. Puffer Co., cement,	46 35	
Springfield Lumber Co., lumber,	30 50	
C. P. Chase & Co., lumber,	2 54	
J. Douglas Law, hardware,	11 45	
John W. Wilder Est., seed,	1 00	
F. L. Hewes & Co., paint,	62	
W. E. Murkland, concrete walks,	3,808 80	
J. W. Rochford, laying walks,	1,145 39	
Highways and Bridges, labor and material,	1,215 28	
A. D. Stone & Co., stone cutting,	37 62	
T. B. Gilbert, carpenter work,	2 70	
Charles E. Gray, labor,	2 46	
N. Y., N. H. & H. R. R. Co., freight,	512 82	
Boston & Maine R. R. Co., freight,	148 02	
Boston & Albany R. R. Co., freight,	105 65	
City Engineering Department, services,	471 09	
Eva M. Rice, overcharge on work,	23 96	
Charles O. Davis, overcharge on work,	12 30	
John L. Scott, overcharge on work,	9 66	
E. A. Blodgett, overcharge on work,	8 67	
Didas A. and Violet A. Bernier, overcharge on work,	4 55	
Est. E. B. Maynard, overcharge on work,	4 38	
E. T. Davis, overcharge on work,	4 33	
Mason M. Baker, overcharge on work,	4 33	
Frances M. Snow, overcharge on work,	4 33	
Charles L. Hunt, overcharge on work,	4 33	
Morris and Sarah Zimmerman, overcharge on work,	4 10	
L. V. B. Cook, overcharge on work,	3 90	
Charles H. Hubbard, overcharge on work,	62	
A. M. Copeland, overcharge on work,	55	
Springfield Printing and Binding Co., printing,	4 50	
		15,367 58
Total payments,		$25,094 20
To contingencies,		631 35
		$25,725 55

Cr.

By appropriation,	$10,700 00	
Transferred from Watering Streets,	4,000 00	
Chas. A. Frazer, Collector: from sundry persons and departments for sidewalk assessments, labor, and material,	11,025 55	
		$25,725 55

Water Street Extension. (Not Completed.)

Thieme Bros., painting and papering,	$94 86	
Geo. Smith & Co., plumbing,	56 44	
Smith & Cotter, plumbing,	5 18	
Geo. M. Burnham, carpenter work,	38 44	
T. B. Gilbert, carpenter work,	34 66	
Water Works, water rents,	60 00	
City Engineering Department, services,	6 53	
Expended in 1906,	$296 11	
Expended in the years 1897 to 1905 inclusive,	37,465 65	
Balance unexpended,	3,437 65	
		$41,199 41

Cr.

By sundry receipts and appropriations in previous years,	$39,943 41	
A. P. Leshure, Agent: rents collected from property in 1906,	1,256 00	
		$41,199 41

Watering Streets.

Pay roll, services of superintendent and use of team,	$3,404 04	
		$3,404 04

Amount brought forward,		$3,404 04

CONTRACTS FOR STREET WATERING.

American Car Sprinkler Co.,	$9,641 94	
V. A. Shaw,	1,041 00	
E. K. Phillips,	1,041 00	
W. F. Piper,	997 16	
J. C. Christianson,	953 03	
W. E. Wheelden,	543 00	
John Crowley,	543 00	
L. P. Griffin,	543 00	
Thomas McElroy,	543 00	
A. F. McQuade,	543 00	
Mrs. L. H. Baker,	498 00	
Alfred Boden,	498 00	
J. P. Brown,	498 00	
Mrs. Mary Donlin,	498 00	
Victor M. Frost,	498 00	
W. N. Garnes,	498 00	
E. W. Pease,	498 00	
Isaiah Rouse,	498 00	
Ezra P. Smith,	498 00	
Charles L. Towne,	498 00	
Austin A. Moulton, Agt.,	373 65	
J. F. Kernan,	90 00	
F. G. Clark,	45 00	
F. G. Southmayd,	18 00	
John Collins, contract at Indian Orchard,	859 06	
		22,754 84

MISCELLANEOUS.

Water Works, stand pipe work,	$1,183 05	
Highways and Bridges, labor and material,	413 10	
C. J. Bailey, blacksmithing,	189 89	
Henry W. Fitch, blacksmithing,	31 65	
P. H. Quinn, horse shoeing,	32 00	
Amounts carried forward,	$1,849 69	$26,158 88

Amounts brought forward,	$1,849 69	$26,158 88
W. B. Spencer, horse shoeing,	2 50	
J. H. Rogers Carriage Co., wagon repairs,	24 55	
Smith & Hubbell, wagon repairs,	10 75	
Oliver & Howland Co., piping,	5 88	
J. L. & H. K. Potter, carts,	338 70	
T. M. Walker & Co., paint,	47 29	
D. W. Mellen & Co., paint,	25 77	
F. L. Hewes & Co., paint,	24 46	
C. C. Lewis Co., hardware,	35 70	
Chapman Valve Mfg. Co., hardware,	8 83	
Morgan Bros., hardware,	2 20	
Geo. A. Graves & Sons, hardware,	1 60	
J. Douglas Law, hardware,	90	
Sewers and Drains, brick,	9 88	
C. E. Rice, pans,	4 16	
G. W. Clampit, wrench,	2 50	
S. J. Wright, supplies,	2 05	
Wadsworth, Howland & Co., brushes,	1 65	
V. E. Moore, feed,	35 68	
H. C. Puffer Co., feed,	31 68	
Franklin Harder, feed,	17 05	
Van Deusen & Foley, feed,	12 60	
John W. Wilder Est., oats,	1 52	
L. A. Richards, hay,	1 81	
Moses Ehrlich Coal Co., coal,	12 48	
Thomas H. Benton, barn rent,	17 52	
Boston & Albany Railroad Co., freight,	8 40	
Springfield Printing and Binding Co., printing,	10 35	
Henry R. Johnson, journal,	6 50	
Susan M. Moore, clerical work,	47 50	
May L. Huntley, clerical work,	47 25	
Minnie D. Burt, clerical work,	47 25	
Anna F. Leonard, clerical work,	44 38	
Anna C. Murphy, clerical work,	31 88	
Jessie I. Cooley, clerical work,	31 50	
Grace E. Hawkins, clerical work,	21 87	
Amounts carried forward,	$2,826 28	$26,158 88

Amounts brought forward,	$2,826 28	$26,158 88
Ethel L. Belden, clerical work,	20 63	
Lillian B. Schofield, clerical work,	20 00	
Grace E. Stebbins, clerical work,	10 50	
		2,877 41
Total payments,		$29,036 29
To contingencies,		3,015 01
Transferred to Walks and Curbings,		4,000 00
		$36,051 30

Cr.

By appropriation,	$9,500 00	
Assessed on abutters for watering streets and private ways in 1906,	24,305 70	
Springfield Street Railway Co.: $100 per mile for trackage in streets watered,	2,173 60	
Chas. A. Frazer, Collector: receipts,	72 00	
		$36,051 30

Water Works.

Pay roll for clerical force and laborers,	$51,623 59	
		$51,623 59

MISCELLANEOUS.

Hazen & Whipple, expert engineering services,	$7,793 30	
E. E. Lockridge, engineering services,	2,433 33	
Allen Hazen, expert engineering services,	1,500 00	
Brooks & Hamilton, legal services and expenses,	1,300 00	
City Engineering Department, services,	440 22	
John R. Freeman, engineering services,	304 50	
Dean & Main, services,	150 00	
Thomas B. Warren, services,	100 00	
E. V. French, services,	62 50	
Amounts carried forward,	$14,083 85	$51,623 59

Amounts brought forward,	$14,083 85	$51,623 59
Everett E. Stone, chairman of water commission,	1,200 00	
Bessie C. Niles, stenographer,	442 20	
Fred T. Ley & Co., grading for filter,	24,620 20	
Geo. M. Atkins Co., extending pipe in reservoir,	1,265 00	
Chas. Millar & Son Co., fittings,	8,494 08	
Chapman Valve Mfg. Co., fittings,	5,798 12	
U. S. Cast Iron & Foundry Co., fittings,	1,919 72	
E. Stebbins Mfg. Co., fittings,	1,477 09	
Oliver & Howland Co., fittings,	1,429 51	
Builders' Iron Foundry, fittings,	1,162 08	
Hitchcock Supply Co., fittings,	570 17	
Bingham & Taylor, fittings,	381 81	
A. P. Smith Mfg. Co., fittings,	345 55	
Lead Lined Iron Pipe Co., fittings,	182 30	
Deane Steam Pump Co., fittings,	109 08	
Davis & Farnum Mfg. Co., fittings,	88 87	
H. Mueller Mfg. Co., fittings,	73 31	
Water Works Equipment Co., fittings,	50 60	
Fostoria Novelty Co., fittings,	35 40	
Pratt & Cady Co., fittings,	22 50	
City of Holyoke Water Works, fittings,	16 56	
Edson Mfg. Co., fittings,	14 58	
M. J. Drummond & Co., pipe,	3,902 16	
R. D. Wood & Co., pipe,	3,439 89	
J. H. Cunningham Co., pipe,	1,954 75	
Geo. N. Vaughan, Agt., pipe,	1,530 00	
Wm. J. Hyland, pipe,	6 09	
Chadwick-Boston Lead Co., lead,	3,160 99	
D'Olier Engineering Co., pumps,	3,238 40	
Walsh Boiler & Iron Works, boilers,	2,672 00	
Charles F. Mann, boiler, etc.,	151 65	
National Meter Co., meters,	3,208 25	
Neptune Meter Co., meters,	1,107 30	
Hersey Mfg. Co., meters,	634 86	
Union Water Meter Co., repairing meters,	13 15	
Amounts carried forward,	$88,802 07	$51,623 59

Amounts brought forward,	$88,802 07	$51,623 59
Thompson Meter Co., repairing meters,......	4 32	
Rensselaer Mfg. Co., valves and hydrants,...	1,197 75	
Ludlow Mfg. Co., valves,..................	188 15	
Harold L. Bond Co., packings,.............	131 89	
Goodyear Rubber Store, packings,..........	56 81	
Davitt Iron Foundry, castings,............	78 87	
H. W. Clark, couplings,...................	7 20	
Coffin Valve Co., gates,..................	296 00	
Thompsonville Water Co., gate box,........	3 00	
Ledder & Probst, transit, etc.,...............	134 30	
C. C. Lewis Co., rods,....................	114 87	
G. G. Ledder, rods, etc.,.................	102 06	
Walworth Mfg. Co., reducer,...............	98 09	
H. K. Barrows, gauges,....................	95 80	
Bristol Co., gauges,......................	42 25	
Adjustable Clip Co., seals,...............	77 00	
Cheney Bigelow Wire Works, wire cloth,....	61 82	
Lovell Wrench Co., die tools,.............	31 47	
Harry W. Stacy, tools,....................	23 65	
Burt Mfg. Co., filter,....................	26 55	
D. F. McCarthy, lantern holders,..........	18 00	
Quimby & Co., lanterns,...................	14 75	
Norwood Engineering Co., plugs,...........	10 08	
Irland Pipe & Wrench Co., wrenches, ...	9 00	
W. H. Vinton, washers,....................	8 93	
C. E. Rice, iron,.........................	4 85	
Norcross Pump Co., pump,..................	3 50	
James H. Bryan Co., rope,.................	2 88	
Geo. A. Graves & Sons, hardware,..........	200 84	
O. C. Alderman, hardware,................	183 33	
D. L. Hazen, hardware,....................	20 20	
J. Douglas Law, hardware,................	8 00	
D. B. Montague, hardware,................	7 95	
Homer Foot & Co., hardware,..............	2 60	
City Lumber Co., lumber,..................	157 83	
Stephen H. Bodurtha, lumber,.............	127 75	
Keefe Bros., lumber,......................	81 61	
Amounts carried forward,	$92,436 02	$51,623 59

Amounts brought forward,	$92,436 02	$51,623 59
E. S. Decker Lumber Co., lumber,	72 57	
Alden Bros., lumber,	71 39	
Springfield Lumber Co., lumber,	14 81	
Pratt Bros., lumber,	14 00	
Ludlow Mfg. Associates, coal,	2,194 53	
M. M. Kendall Co., coal,	394 94	
R. W. Rice Coal Co., coal,	80 37	
S. Richard Carlisle, coal,	7 00	
E. J. Worthington, charcoal,	7 00	
Gilbert & Barker Mfg. Co., gasoline,	351 01	
William R. Winn, oil,	90 60	
Hisgen Bros., oil,	13 88	
A. H. Halford, oil,	8 15	
Mortimer J. Hall, oil,	6 88	
Napoleon Barrett, oil,	55	
John W. Wilder Est., feed,	398 67	
Robert Ely, Jr., feed,	264 87	
H. J. Roche, feed,	75 60	
V. E. Moore, feed,	60 62	
F. S. Wood, feed,	42 50	
Burr Co., feed,	21 20	
E. N. Fisher, feed,	13 60	
Strong, Lefferts Co., feed,	1 06	
Bausch & Lomb Optical Co., laboratory supplies,	193 31	
Eimer & Amend, laboratory supplies,	136 32	
Metropolitan Fire Extinguisher Co., fire extinguisher,	25 00	
Fiss, Doerr & Carroll Horse Co., three horses,	705 00	
Pauper Department, horse,	175 00	
Knox Automobile Co., automobile supplies,	343 12	
T. J. Regnier, harness supplies,	170 93	
Smith & Hubbell, buggy and wagon,	153 15	
Springfield Auto-Top Upholstering Co., storm front,	12 70	
Burgin Bros., wagon covers,	6 50	
Alling Rubber Co., apron,	1 30	
Amounts carried forward,	$98,564 15	$51,623 59

Amounts brought forward,	$98,564 15	$51,623 59
Art Metal Construction Co., metal case,.....	180 00	
Fisk Rubber Co., tubes,....................	155 49	
Forbes & Wallace, dry goods,...............	141 03	
Maynard Rubber Corporation, boots,........	53 88	
Cutler & Porter, boots,....................	25 41	
James L. Greenwood, boots,................	4 75	
J. M. Lefevre, boots,......................	4 00	
F. M. West Box Co., boxes,.................	27 36	
Meekins, Packard & Wheat, chairs,.........	20 45	
Whitcomb & Faulkner, dynamite,...........	15 00	
Springfield Awning Co., awning,...........	11 50	
Geo. A. Benoit, range,.....................	11 00	
O. H. Dickinson, cans,.....................	10 87	
H. W. Carter Co., paper,...................	10 71	
W. H. Gates, brooms,......................	9 00	
Milwaukee Dustless Brush Co., brush,.......	3 00	
E. M. Porter, brushes,.....................	1 50	
Chas. Hall, dusters,.......................	3 10	
W. G. Hall, mops,.........................	1 20	
Geo. Nye & Co. soap powder,...............	3 72	
Solshine Mfg. Co., polish,..................	2 00	
A. H. Bartlett, bags,.......................	8 10	
Dickinson & Co., blankets,..................	3 92	
F. E. Fetts Mfg. & Supply Co., towels,......	1 00	
Fox & Millea, holder,.......................	6 40	
J. H. Miller Co., frames,...................	2 75	
John B. Batt, plates,.......................	1 44	
S. D. Viets Co., supplies,..................	37 19	
Perrin, Seamans & Co., supplies,............	36 75	
L. Gladwin, supplies,......................	18 40	
Congdon & Carpenter Co., supplies,.........	17 33	
Tragle Cordage Co., cordage,...............	21 25	
Springfield Waste Co., waste,...............	20 68	
Standard Brick Co., brick,..................	12 25	
Springfield Felting Co., asbestos,...........	10 00	
New York Lead Wool Co., lead wool,........	5 00	
M. A. Maynard, pipe,.......................	2 04	
Amounts carried forward,	$99,463 62	$51,623 59

Amounts brought forward,	$99,463 62	$51,623 59
C. G. Noel, sand,	1 00	
N. Y. & N. E. Pulp Plaster Co., plaster,	50	
Edward Smith & Co., paint,	57 75	
Walker Bros., paint,	21 06	
N. L. Byron, paint,	20 00	
Goheen Mfg. Co., paint,	3 38	
Wadsworth, Howland & Co., paint,	2 75	
T. M. Walker & Co., paint,	1 70	
F. L. Hewes & Co., paint,	1 50	
J. C. Jones & Co., paint,	40	
P. C. Fitzpatrick, climbers,	5 35	
J. C. Roy & Co., carpenter work,	2,156 90	
O. A. La Riviere, carpenter work,	479 31	
E. D. Kelso, carpenter work,	160 72	
Geo. M. Burnham, carpenter work,	48 27	
Old Corner Decorating Co., papering,	113 75	
E. A. Hale, papering,	2 15	
Walker Bros., setting glass,	10 38	
Starr Electric Co., electrical work,	104 96	
Hawes & Gray, electrical work,	22 24	
Carter Electric Co., electrical work,	30	
L. W. Dunlap, plumbing,	34 36	
D. B. Spencer, building vault,	28 38	
W. D. McKenzie, mason work,	18 26	
John Swaine, blacksmithing,	443 85	
G. W. Clampit, blacksmithing,	1 50	
P. H. Quinn, horse shoeing,	296 35	
Geo. Mackintosh, horse shoeing,	8 00	
E. H. Holden, veterinary services,	179 30	
S. F. Butterworth, clipping horses,	6 50	
Highways and Bridges, street repairs,	408 37	
M. J. Dunn & Co., repairs,	159 90	
W. & L. E. Gurley, repairs,	52 45	
H. J. Pratt & Co., repairs,	51 44	
P. P. Emory Mfg. Co., repairs,	11 50	
Walks and Curbing, repairs,	8 12	
Jenkins Bros., repairs,	3 35	
Amounts carried forward,	$104,389 62	$51,623 59

Amounts brought forward,	$104,389 62	$51,623 59
John W. Russell, repairs,	1 75	
E. A. Whipple & Sons, repairs,	1 00	
E. M. Denoon, labor,	20 03	
H. T. Elwell Iron Works, labor,	2 25	
Granger Towel Supply, towel supply,	8 26	
A. D. Stone & Co., stone cutting,	3 47	
H. Ford, machine work,	1 45	
Wyckoff & Lloyd Co., machine work,	60	
James L. Bowen, sealing scales,	1 00	
Paul Weidenmiller Grinding Co., grinding,	40	
N. Y., N. H. & H. R. R. Co., freight,	880 40	
Boston & Albany Railroad Co., freight,	391 75	
Boston & Maine Railroad Co., freight,	60 18	
A. R. Hathaway, cash paid,	2,013 68	
Edward W. Beattie, Jr., cash expenses,	132 65	
J. R. Whipple & Co., expenses,	88 85	
Everett E. Stone, cash paid,	79 05	
Burt Hurlbert, cash paid,	14 78	
W. J. Littlefield, cash paid,	8 16	
Francis Beeso, cash paid,	2 20	
New England Telephone and Telegraph Co., services,	317 61	
Postal Telegraph-Cable Co., messages,	4 96	
Western Union Telegraph Co., messages,	1 40	
United Electric Light Co., lights,	185 58	
Springfield Gas Light Co., gas, etc.,	92 76	
Town of Ludlow, taxes,	159 55	
Town of Belchertown, taxes,	127 21	
Hutchins Narrow Fabric Co., damages,	57 47	
D. J. Moriarty, damages,	50 00	
Freeman H. Sanborn, boiler inspection,	29 00	
D. J. Curtis, return of penalties,	28 00	
J. W. Hannum, M.D., professional services,	5 00	
W. J. Eldred, printing,	211 83	
Springfield Printing and Binding Co., printing,	145 13	
Chas. P. Kaplinger Co., printing,	50 55	
Amounts carried forward,	$109,567 58	$51,623 59

Amounts brought forward,	$109,567 58	$51,623 59
John E. Steward, printing,	5 25	
Engineering News, advertising,	25 20	
Republican Co., advertising,	18 45	
Engineering Record, advertising,	16 80	
Springfield Union, advertising,	16 01	
Daily News Publishing Co., advertising,	3 75	
Springfield Homestead Newspaper Co., advertising,	1 80	
Henry R. Johnson, stationery,	112 54	
G. A. Cadwell, stationery,	25 31	
J. G. Lutz, letter heads,	21 50	
Library Bureau, cards,	64 00	
Eugene Dietzgen Co., tracing cloth,	27 06	
Ashcroft Mfg. Co., charts,	25 00	
Morgan Envelope Co., supplies,	15 30	
Geo. G. Ware, typewriter supplies,	15 00	
Colby Mfg. Co., pads,	13 68	
A. H. Bartlett, pads,	5 25	
E. G. Soltman, drafting materials,	10 82	
E. G. Ruehle & Co., maps,	5 72	
Stone Press Copying Bath Co., blotter bath,	4 75	
H. P. Ferre, stamps,	4 50	
Morgan, Crossman & Co., stamps,	1 45	
C. P. Kaplinger, books,	35 00	
John E. Steward, books,	12 00	
Price & Lee Co., books,	12 00	
Henry R. Huntting, books,	8 00	
Rood & Woodbury, groceries,	174 03	
Geo. Jackson, groceries,	44 24	
Frank A. Towne, groceries,	10 71	
Downing, Taylor & Co., groceries,	4 22	
W. C. Savage, groceries,	1 63	
L. E. Pease & Son, meat,	24 15	
A. G. Hiersche, meat and butter,	7 05	
R. Hinneman, eggs,	12 60	
Burger & Taft, ice,	7 80	
Sturtevant, Merrick Co., provisions,	5 04	
Amounts carried forward,	$110,365 19	$51,623 59

Amounts brought forward,	$110,365 19	$51,623 59
Martin Peterson, board of engineers,	283 75	
Mrs. Austin L. Graves, board of engineers,	63 00	
Stephen C. Bodurtha, board of engineers,	18 10	
The Worthy, board,	9 00	
E. C. Barr Co., lunches,	81 95	
L. W. Dillon, meals,	23 00	
Hampden Automobile Co., rent of automobile,	217 00	
Springfield Automobile Co., rent of automobile,	75 00	
E. R. Clark Automobile Co., rent of automobile,	25 00	
Stanford L. Haynes, rent of automobile,	25 00	
Charles C. Spellman, rent of land,	50 00	
Charles D. Rood, rent of land,	24 00	
E. Newton Fisher, rent of land,	19 00	
Durkee, White & Towne, rent of instruments,	15 00	
W. E. Sikes, rent of boat,	9 00	
N. E. Apron Supply Co., rent of vests,	90	
Union Stables, livery,	313 00	
John Duteau, livery,	302 45	
John Collins, livery,	111 75	
Thomas A. Lewis, livery,	58 75	
A. F. Davis, livery,	56 00	
Seymour Stables, livery,	12 00	
D. Duquette & Co., livery,	7 50	
V. M. Frost, livery,	6 00	
Wm. Fuller & Son, livery,	4 00	
Collins & Guertin, livery,	3 00	
Warren & Hubbard, expressage,	88 90	
T. Shea, cartage,	77 75	
Thomas E. Beahn, cartage,	33 75	
Hamill & Co., cartage,	27 00	
E. W. Oatley & Co., cartage,	10 25	
		112,415 99
Total payments,		$164,039 58

Amount brought forward,		$164,039 58
Transferred to interest account to meet annual interest on water bonds,...		21,875 00
Surplus balance to Water Works sinking fund,......................		100,875 96
		$286,790 54

Cr.

Chas. A. Frazer, Collector: receipts for water rents, ...	$260,186 99	
Chas. A. Frazer, Collector: receipts for labor, material, etc., ...	26,603 55	
		$286,790 54

CITY ORDINANCES FOR
1906.

CITY OF SPRINGFIELD.

ORDINANCES OF 1906.

CHAPTER I.

AN ORDINANCE

AMENDING CHAPTER 29 OF THE REVISED ORDINANCES RELATING TO THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. Section 1 of Chapter 29 of the Revised Ordinances relating to the Fire Department is hereby amended so that said Section as amended shall read as follows:—

SECTION 1. The present members of the Board of Fire Commissioners shall hold their offices during the terms for which they severally are appointed. Such appointees, together with the chairman of the Committee on the Fire Department, who shall be ex officio a member of the Board, shall constitute the Board of Commissioners of the Fire Department, and annually, hereafter, in the month of April, the Mayor shall appoint, subject to confirmation by the City Council by concurrent vote, a citizen and resident of the City to be a member of said Board for the term of four years from the succeeding first Monday of May. In all appointments of members of said Board, the political affiliation of the appointee shall be considered with a view to so constituting the Board as that no more than two of its members so appointed shall be of the same political party; and no person shall be appointed, or, excepting said chairman of said Committee, be a member of the Board, who is a member of the City Council, or holds any Municipal office for which he receives compensation. No person shall serve as an appointed member of said Commission more than two consecutive terms of four years each. And any member removing from the City shall thereby vacate his office.

SECTION 2. Section 28 of said Chapter 29 is hereby amended so that said section as amended shall read as follows: Section 28. Upon recommendation of the Chief Engineer of the Fire Department or upon his own petition therefor, any member of the Fire Department who by reason of permanent disability incurred while in the discharge of his duty as fireman is no longer able to perform active service as such fireman, or any member of the Fire Department who has performed faithful service in that department for a period of not less than twenty consecutive years, provided that he is incapacitated for further useful service, or any member of the Fire Department who has reached the age of sixty-five years and who has performed faithful service in that department for a period of not less than twenty consecutive years shall receive a pension of one-half the salary which he may have been receiving at the time of his disability or retirement.

SECTION 3. Section 29 of said Chapter 29 is hereby amended so that said Section as amended shall read as follows: Section 29. Every pension granted to a fireman shall be payable monthly.

SECTION 4. Sections 33, 34, and 35 of said Chapter 29 and all Ordinances or parts of Ordinances inconsistent herewith are hereby repealed and Sections 36, 37, 38, and 39 of said Chapter 29 are hereby renumbered as Sections 33, 34, 35, and 36 respectively.

Approved, February 20, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER II.

AN ORDINANCE

INCREASING THE NUMBER OF PERMANENTLY EMPLOYED MEN IN THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. The number of men permanently employed in the

Fire Department is hereby increased from Eighty-five to not exceeding One Hundred and Five.

SECTION 2. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, May 29, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER III.

AN ORDINANCE

RELATING TO THE COMPENSATION OF MEMBERS OF THE POLICE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. The annual compensation of the members of the Police Department shall be as follows:—

City Marshal, Eighteen Hundred Dollars, which sum shall be in full for his services; Assistant Marshal, Thirteen Hundred Dollars; Captain of the Watch, Twelve Hundred Dollars; Inspectors, Twelve Hundred Dollars, each; Lieutenant, Eleven Hundred and Fifty Dollars; Sergeants, Eleven Hundred Dollars; Police Matron, Five Hundred Dollars.

Night and Day Watchmen, as follows: to wit,—each who is or may be serving his first year of service, or the first year of service after an interval of non-service, Two Dollars and Nineteen Cents per day; each who is or may be serving his second year of continuous service, Two Dollars and Thirty-three Cents per day; each who is or may be serving his third or any subsequent year of continuous service, Two Dollars and Ninety Cents per day.

The Police Commission may, in its discretion, reimburse any police officer for damages to his clothing, received while on duty.

Members of the Reserve Police Force, each, the sum of Two Dollars and Nineteen Cents per day, when actually employed.

Special Policemen, One Dollar and Seventy-five Cents per day for day service, and Two Dollars per night for night service.

The Marshal shall be entitled to an absence from duty, of Fourteen days during each year of his service, with full pay; such absence to be with the approval of the Police Commission.

The Assistant Marshal, Captain of the Watch and Night and Day Watchmen, shall be entitled to an absence from duty, of Fourteen days during each year of service, with full pay; such absence to be with the approval of the Marshal.

SECTION 2. Section 5 of Chapter 5 of the Ordinances of the City of Springfield, and all other Ordinances or parts of Ordinances inconsistent herewith, are hereby repealed.

Approved, June 19, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER IV.

AN ORDINANCE

ACCEPTING AND ADOPTING CHAPTER 317 OF THE ACTS OF THE GENERAL COURT OF 1906, ENTITLED "AN ACT TO AUTHORIZE THE CITY OF SPRINGFIELD TO INCREASE ITS WATER SUPPLY.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. The Act of the General Court of this Commonwealth, entitled, "An Act to Authorize the City of Springfield to Increase its Water Supply," approved April 25, 1906, is hereby accepted and adopted, as follows:—

(CHAP. 317.)

AN ACT TO AUTHORIZE THE CITY OF SPRINGFIELD TO INCREASE ITS WATER SUPPLY.

Be it enacted, etc., as follows:—

SECTION 1. The City of Springfield, acting by its Board of Water Commissioners, when said Board shall thereto be authorized by the City Council, for the purpose of increasing its water supply, may take, hold, store and convey to, into and through its system of water works the waters, or such part thereof as may from time to time be necessary for said purpose, of the Westfield Little river and its tributaries, the place of diversion of the waters to be on said Westfield Little river not less than four hundred feet above mean sea level; and may use the waters so taken, in connection with and through the medium of its present system of water works or otherwise, for any and all purposes for which said City is or may be authorized to use water; and may take and hold, by purchase or otherwise, any lands, rights of way, easements or other rights of property which said Board may deem necessary for any of the purposes of this act, and for conveying the same to any part of said City and to any place which is or, under authority of law, may be supplied with water by said City, or for carrying out any of the powers and duties conferred by this act.

SECTION 2. The City shall construct and maintain a suitable filter or filters, and may construct and maintain on lands so taken or purchased dams, reservoirs, buildings and other works or structures which said Board may deem necessary for the taking, storing, filtering, conveying, controlling, measuring and distributing said waters, or for any other purpose of this act, and may construct, lay down and carry such canals, tunnels, pipes, telephone wires or other works under, through or over any lands, rivers or other water courses, railroads, street railways and public or private ways, and over or upon any public bridges now existing or hereafter built, as may be necessary or convenient for such purposes, and may contract with the public authorities owning or controlling any public bridge or bridges hereafter built for adaptation thereof to the use herein provided, on such terms as may be agreed upon; and for the purposes of this act may open or dig up any public or private ways in said City, or in any town in which any portion of said work is located, under the direction of the selectmen thereof, or, in the case of state highways, under the direction of the highway commission, in such manner as to cause no unreasonable hindrance to public travel, and shall hold such town harmless from all liability to damages from any cause resulting from such acts of said City.

Section 3. If said City shall so construct any reservoir under authority of this act as to flow an existing public way, it shall raise the same to such grade as will leave it reasonably safe and convenient for travel, or shall build in place of any part of such way so flowed such other reasonable and suitable way, which shall thereafter be a public way, with all necessary fences and culverts, as and in such manner as shall be mutually agreed upon between its Board of Water Commissioners and the Selectmen of the town, or if they cannot agree thereon, then as and in such manner as shall be determined by the County Commissioners of the County of Hampden, upon application of either party to them, and said County Commissioners are hereby authorized and directed to adjudicate upon the same.

Section 4. Said Board of Water Commissioners may enter upon and use the lands of others, and shall use such lands in a reasonable manner, with regard to the interests of the owners thereof, and, so far as practicable, shall heed all reasonable requests made by such owners; and in general may do any other act or thing necessary or proper for carrying out the powers and duties conferred upon it by this act.

Section 5. Before beginning the construction of any works for storing, filtering, or conveying water from Westfield Little river to the City of Springfield, or making changes in works which may have previously been constructed, the said City shall from time to time submit its proposed plans to the State Board of Health for its approval, and the said City shall construct the works in general accordance with the plans so approved.

Section 6. Within ninety days after taking any waters or water rights, lands, rights of way, easements or property for any of the purposes of this act said City shall file and cause to be recorded in the registry of deeds for the county in which the same are situated a description thereof, signed by the Board of Water Commissioners, which in the case of land taken shall be as certain as is required in a common conveyance of land, stating that the same are taken for the purposes of this act, and shall file with such statement a map or plan, drawn to scale, of the lands taken and described in such statement; and after such taking of any property the Board shall notify the owner or owners thereof, if known to them, and on written request of any such owner or owners to the Board, within one year after such taking, shall within thirty days after the receipt of such request furnish said owner or owners with a reasonably accurate plan or description in writing of the land or other property so taken.

SECTION 7. The said City shall pay all legal damages suffered by any person in his property by the taking of any property as herein provided, or by any other act occasioning legal damage done by it under the authority hereof; but no damages shall be recoverable for the taking of any water until such water is actually diverted. All such damages shall be ascertained and recovered in the manner provided by law when land is taken for the laying out of highways, and all proceedings for the recovery of such damages shall be brought within two years after the right of action accrues. In case a claimant for damages shall so elect application may be made by him to the Superior Court for the County in which the property is located, for the appointment of a commission to determine the amount of damages suffered by such claimant, and thereupon, such notice to said City having been given as said court may order, the court shall appoint a commission consisting of three competent and disinterested persons, who shall determine the amount of such damages and report the same to the court; which report when finally approved by the court shall be binding on all the parties. The compensation of said commissioners shall be fixed by the court and paid in the same manner as are the fees of auditors appointed by the court. Whether or not costs shall be allowed to the prevailing party, and in what amount, shall be in the discretion of said court.

SECTION 8. Said City may, for the purpose of paying the necessary expenses and liabilities incurred under the provisions of this act, issue from time to time coupon or registered bonds or notes to an amount not exceeding in the aggregate two million dollars. Such bonds or notes shall bear on their face the words, City of Springfield: Westfield Little River Water Loan; shall be payable at the expiration of periods not exceeding thirty years from the dates of issue; shall bear interest payable semi-annually at a rate not exceeding four per cent per annum, and shall be signed by the Treasurer and countersigned by the Mayor of said City. Said City may, by its Mayor and Treasurer, sell such securities for the purposes of this act, upon such terms and conditions as they may deem proper; provided, that such securities shall not be sold for less than the par value thereof.

SECTION 9. Said City shall at the time of authorizing said loan provide for the payment thereof in such annual proportionate payments, beginning not less than three years after the first issue of said bonds or notes, as will extinguish the same within the time prescribed by this act, and when a vote to that effect has been passed by the City Council a sum which with the surplus of income derived from the water rates will be sufficient to pay the annual expense of operating its water works and the interest as it accrues on bonds or notes issued by said City under the provisions of this act, and to make such payments on the principal as may be required under the provisions of this act, shall, without further vote, be assessed by the assessors of said City in each year thereafter, in the same manner in which other taxes are assessed, under the provisions of Section 37 of Chapter 12 of the Revised Laws, until the debt incurred by the loan herein authorized is extinguished. The income of the water works shall be applied to defraying all operating expenses, interest charges, and payments on the principal as they accrue upon any bonds or notes issued under the authority of this act or of previous acts relating to the water supply of the city. If there should be a net surplus remaining after providing for the aforesaid charges it may be used for such new construction as the Water Commissioners, with the approval of the City Council, may determine, and, in case a surplus should remain after payment for such new construction, the water rates shall be reduced proportionately.

SECTION 10. Whenever, in the opinion of the State Board of Health, the Town of Westfield shall have developed the watershed or sources of Tilliston brook, so far as may reasonably be done, the City of Springfield shall furnish the Town of Westfield such additional quantity of water as may be required by said town, for the purposes for which the town is authorized to furnish water to its inhabitants, water so furnished to be taken from the pipes of the City of Springfield at a place thereon in said Town of Westfield where they may readily be connected with the pipes of said town, the town paying therefor at the same rate per million gallons furnished as its water then costs the said town at the point of taking, exclusive of the cost of pipes for the distribution of water in the streets of the town, and the cost of its so-called Montgomery system; but the said town shall not be entitled to a greater proportion of the water from the Westfield Little river watershed, as developed by the City of Springfield, than the ratio which its population bears to the combined populations of the City of Springfield and the Town of Westfield.

SECTION 11. In the event of a dispute arising as to the cost of water furnished as aforesaid the Superior Court for the County of Hampden shall upon petition appoint one or more commissioners to hear the parties and to report to the court the facts, or the facts with the evidence, which report when finally approved by the court shall be binding upon the parties. The compensation of said commissioner or commissioners shall be fixed by the court and paid in the same manner as are the fees of auditors appointed by the court. Whether or not costs shall be allowed to the prevailing party and in what amount shall be within the discretion of said court.

SECTION 12. The City of Springfield may supply water to the Town of West Springfield and to the Town of Agawam, upon such terms as may be agreed upon between said City and said towns, respectively.

SECTION 13. After the actual taking of any real estate in the Towns of Blandford or Granville by the City of Springfield under authority of this act the same may be valued by the assessors of said towns, respectively, for the purposes of taxation, on the basis of the average of the assessed values of such real estate for the three years last preceding the acquisition thereof; and said City shall pay to said towns taxes at the valuations so determined.

SECTION 14. In the event that public convenience and necessity shall require said Towns of Blandford and Granville, or either of them, to build and maintain more highway or highways, bridge or bridges, by reason of the actual taking of any real estate therein by the said City, under authority of this act, and if the same shall be so built and maintained, then the said City shall reimburse said Towns of Blandford and Granville, respectively, for any reasonable expenditure incurred by them respectively for such building and maintenance.

SECTION 15. In the event that said towns, or either of them, and said City are unable to agree at any time upon the necessity for such building and maintenance of more highway or highways, bridge or bridges, or upon what sum or sums of money should constitute reasonable expenditure for the maintenance thereof, or if said City shall at any time be dissatisfied with the valuation for the purposes of taxation of any real estate as aforesaid actually taken by it in said town or towns, or with the taxes assessed thereon, a petition may be made to said Superior Court, whereupon the same proceedings shall be had as are provided for by Section 11 of this act.

SECTION 16. If the City of Springfield shall actually take, under and by virtue of this act, the water supply comprehended thereby, and if the State Board of Health shall hereafter determine, upon hearing the parties, that the Town of Westfield by reason of such taking will be compelled sooner than it otherwise would, to erect or create another and a different sewage disposal or treatment plant, and if as a result of such determination said town shall so erect or create another and different sewage disposal or treatment plant, then said City shall pay to said town, annually, interest on the cost that said Board of Health shall decide was reasonably necessary therefor, including therein the interest on the cost of such lands as said Board shall deem to be reasonably necessary therefor, and also such cost of the maintenance and depreciation thereof as said Board shall determine was reasonable, and for such a period of time as said Board shall determine that said erection or creation was sooner rendered necessary by such taking by said City. The rate of interest so to be paid for such period shall be the same as said town shall pay from year to year during said period upon money borrowed by it. In case either the Town of Westfield or the City of Springfield shall be dissatisfied with the decision of the State Board of Health upon any of the matters contained in this section, the party so dissatisfied may petition to said Superior Court, whereupon the same proceedings shall be had as provided in Section 11 of this act.

SECTION 17. All acts and parts of acts inconsistent herewith are hereby repealed.

SECTION 18. This act shall take effect upon its acceptance by the City Council of said City voting thereon within one year from the date of passage. Unless said City within two years after the acceptance of this act in the manner herein provided shall have begun work hereunder, all the rights herein granted to said City shall cease and this act shall become void. (Approved, April 25, 1906.)

Approved, June 19, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER V.

AN ORDINANCE

FIXING THE COMPENSATION OF THE FIRST ASSISTANT SUPERINTENDENT OF STREETS.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. The compensation of the First Assistant Superintendent of Streets is hereby fixed at Fifteen Hundred Dollars per annum.

SECTION 2. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, July 2, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VI.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE SCHOOLHOUSE AGENT.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. The compensation of the Schoolhouse Agent is hereby established at Eighteen Hundred Dollars per annum, which shall be in full for all his services, and for the use of a horse and wagon, if such shall be necessary, to be furnished and kept by said Agent.

SECTION 2. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, July 2, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VII.

AN ORDINANCE

FIXING THE COMPENSATION OF THE BOARD OF ASSESSORS.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTON 1. The compensation of the Board of Assessors is hereby fixed at Four Thousand Six Hundred Dollars per year in full for all services, to be divided as follows: Chairman, Sixteen Hundred Dollars; each of the other two members of the Board, Fifteen Hundred Dollars. This compensation of the Assessors shall include that provided for Assessors by the Revised Laws of the Commonwealth or any amendments thereof.

SECTION 2. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, July 2, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VIII.

AN ORDINANCE

AMENDING SECTION 16 OF CHAPTER 29 OF THE REVISED ORDINANCES RELATING TO THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. Section 16 of Chapter 29 of the Revised Ordinances of the City of Springfield is hereby amended so that said Section as amended shall read as follows:—

SECTION 16. Every engine, hook and ladder, chemical engine, and hose company and auxiliary squad shall have a captain, lieutenant, and clerk, who shall be elected by the Board of Commissioners of the Fire Department from nominations presented to said Commissioners by the Chief Engineer and Deputy Chief Engineer. If such nominations are rejected by the Commissioners, new nominations shall be made by said engineers. If, at the expiration of ten days after nominations have been called for, the engineers fail to make such nominations, the Commissioners may elect without such nominations being made. The clerk shall be one of the permanent men of the company, and shall perform the duties of clerk without any extra compensation therefor. The person elected shall have notice of his election by certificate thereof, signed by the Commissioners, and shall hold the office to which he is chosen for the term of one year from the first day of May preceding his election, and until another shall be duly chosen in his stead, unless sooner removed by the Board of Commissioners of the Fire Department.

SECTION 2. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, October 2, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER IX.

AN ORDINANCE

FIXING THE COMPENSATION OF THE ASSISTANT SUPERINTENDENTS OF STREETS.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. The compensation of the Assistant Superintendents of Streets is hereby fixed at Fifteen Hundred Dollars each, per annum.

SECTION 2. Chapter 5 of the Ordinances of 1906 and all other Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, October 2, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER X.

AN ORDINANCE

RELATING TO DEALERS IN COAL AND COKE.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. Licenses granted by the Secretary of the Commonwealth to dealers in coal and coke under and pursuant to Chapter Four Hundred and Eighty-four of the Acts of Nineteen Hundred and Three, as amended by Chapter Four Hundred and Thirty-four, Acts of Nineteen Hundred and Six, shall be for the period of one year, and the license fee therefor, as prescribed by the Secretary of the Commonwealth, shall be one dollar.

SECTION 2. Section One of Chapter Forty-five of the Revised Ordinances and all other Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, October 9, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XI.

AN ORDINANCE

INCREASING THE NUMBER OF POLICE INSPECTORS.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. Section 11 of Chapter 33 of the Revised Ordinances of the City of Springfield is hereby amended by striking out the word "two" and substituting therefor the word "four," so that said section as amended shall read as follows:—

SECTION 11. The City Marshal may also, with the approval of such commission, detail not more than four night and day watchmen to do special duty and detective work as police inspectors. The City Marshal may remove said inspectors from said office at any time, subject to the approval of such commission.

SECTION 2. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, December 8, 1906.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XII.

AN ORDINANCE

AMENDING SECTION 44 OF CHAPTER 37, REVISED ORDINANCES FOR THE PREVENTION OF INJURIOUS PRACTICES IN THE STREETS.

Be it ordained by the City Council of the City of Springfield as follows:—

SECTION 1. Section 44 of Chapter 37, Revised Ordinances for the Prevention of Injurious Practices in the Streets, is hereby amended by striking out the words "eight" and "ten" and substituting therefor the words "six-thirty" and "eleven," so that said section as amended, shall read as follows:—

SECTION 44. No person shall permit water from the eaves or leader pipes of any building owned or cared for by him to be discharged upon any public street or sidewalk in the city, and no person, between the hours of six-thirty o'clock in the morning and eleven o'clock in the evening, shall wash or allow to be washed any windows or wall of a building owned or cared for by him in such a manner as to cause the discharge of water upon any public sidewalk or walk devoted to the public use.

SECTION 2. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed.

Approved, December 18, 1906.

Attest: E. A. NEWELL, *City Clerk.*

ORDERS OF THE BOARD OF ALDERMEN.

ORDERED, That Rule 5 of the Rules and Orders of the Mayor and Board of Aldermen, relating to the licensing of Hackney Carriages, Omnibuses, etc., be and the same is hereby amended by striking out the word April and substituting therefor the word May, so that said Rule as amended shall read as follows:—

RULE 5. All licenses shall expire on the first day of May next after the date thereof, and may be revoked by the Mayor and Aldermen at their discretion; and no license shall be transferable without the consent of the Mayor indorsed thereon; and such transfer shall be recorded by the City Marshal.

And it is further ordered that Rule 14 of said orders relating to the licensing of Trucks, Drays, etc., be and the same is hereby amended by striking out the word April and substituting therefor the word May, so that said Rule as amended shall read as follows:—

RULE 14. All licenses so granted shall expire on the first day of May next after the date thereof, unless sooner revoked; and no license shall be transferable without the consent of the Mayor indorsed thereon; and such transfer shall be recorded by the City Marshal.

Approved, January 30, 1906.

Attest: E. A. NEWELL, *City Clerk.*

ORDERED, That the following Rules and Regulations for vehicles in the City of Springfield be and the same are hereby adopted:—

No person having in any street the charge of a vehicle shall neglect or refuse to stop the same, or to place the same when stopped, as directed by a police officer.

Whoever violates any provision of this order shall be punished by a fine not exceeding twenty dollars for each offense, and not only the person actually doing the prohibited thing, but also his employer and every person concerned in so doing, shall be punished by such fine.

Approved, June 26, 1906.

Attest: E. A. NEWELL, *City Clerk.*

TAXES.

TAXES.

TAXES—1852—DAVID A. ADAMS, COLLECTOR.

Amount of County tax committed,	$7,785 57	
Amount of City tax committed,	31,213 72—	$38,999 29
Received of David A. Adams, Collector, cash and allowances, as follows:—		
By cash paid County tax,	$7,785 57	
By cash on account of City tax,	28,571 72	
By discount on taxes, allowed,	1,488 36	
By abatements allowed,	1,153 64—	$38,999 29

Rate—Six dollars and fifty cents on one thousand dollars. Poll tax, one dollar and fifty cents.

Attest. JOSEPH INGRAHAM, *City Treasurer.*

TAXES—1853—JAMES KIRKHAM, COLLECTOR.

Amount of State tax committed,	$3,327 00	
Amount of County tax committed,	7,229 45	
Amount of City tax committed,	38,338 85—	$48,895 30
Received of James Kirkham, Collector, cash and allowances, as follows:—		
By cash paid County tax,	$7,229 45	
By cash on account of City tax,	38,746 27	
By discount allowed on taxes,	1,829 39	
By abatements allowed,	1,090 19—	$48,895 30

Rate—Seven dollars and twenty cents on one thousand dollars. Poll tax, one dollar and sixty-five cents.

Attest, JOSEPH INGRAHAM, *City Treasurer.*

TAXES—1854—JOHN B. KIRKHAM, COLLECTOR.

Amount of State tax committed,	$3,327 00	
Amount of County tax committed,	7,785 57	
Amount of City tax committed,	41,512 98—	$52,625 55

Received of John B. Kirkham, Collector, cash and allowances, as follows:—

By cash paid County tax,	$7,785 57	
By cash on account of City tax,	41,289 37	
By discount allowed on taxes,	2,142 78	
By abatements allowed on taxes,	1,407 83—	$52,625 55

Rate—Six dollars on one thousand dollars. Poll tax, one dollar and sixty-five cents.

Attest, JOSEPH INGRAHAM, *City Treasurer.*

TAXES—1855—IRA B. SAMPSON, JOHN B. KIRKHAM, AND JAMES KIRKHAM, COLLECTORS.

[Ira B. Sampson and John B. Kirkham died before the final settlement with the Treasurer.]

Amount of State tax committed,	$4,990 50	
Amount of County tax committed,	8,063 63	
Amount of City tax committed,	66,816 16	
Amount of interest,	148 30—	$80,018 59

Received of the three Tax Collectors, cash and allowances, as follows:—

By cash paid County tax,	$8,063 63	
By cash of Ira B. Sampson,	51,000 00	
By cash of John B. Kirkham,	13,788 17	
By cash of James Kirkham,	1,362 27	
By discount on taxes allowed,	2,953 18	
By abatements allowed,	2,851 34—	$80,018 59

Rate—Eight dollars and fifty cents on one thousand dollars. Poll tax, two dollars and twenty cents.

Attest, JOSEPH INGRAHAM, *City Treasurer.*

TAXES—1856—JOHN B. KIRKHAM AND JAMES KIRKHAM, COLLECTORS.

[John B. Kirkham died before the final settlement with the Treasurer.]

Amount of State tax committed,	$6,654 00	
Amount of County tax committed,	8,480 71	
Amount of City tax committed,	54,732 40	
Amount of interest,	102 85—	$69,969 96

Received of the two Tax Collectors, cash and allowances, as follows:—

By cash paid County tax,	$8,480 71	
By cash,	55,832 95	
By discount allowed on taxes,	3,274 41	
By abatements allowed on taxes,	2,381 89—	$69,969 96

Rate—Seven dollars and fifty cents on one thousand dollars. Poll tax, two dollars and twenty cents.

Attest, JOSEPH INGRAHAM, *City Treasurer.*

TAXES—1857—JAMES KIRKHAM, COLLECTOR.

Amount of State tax committed,	$9,981 00	
Amount of County tax committed,	9,175 86	
Amount of City tax committed,	67,745 36	
Amount of interest,	109 10—	$87,011 32

Received of James Kirkham, Collector, cash and allowances, as follows:—

By cash paid County tax,	$9,175 86	
By cash,	72,698 50	
By discount allowed on taxes,	3,127 64	
By abatements allowed on taxes,	2,009 32—	$87,011 32

Rate—Nine dollars and twenty cents on one thousand dollars. Poll tax, two dollars and twenty cents.

Attest, JOSEPH INGRAHAM, *City Treasurer.*

TAXES—1858—HORACE C. LEE, COLLECTOR.

Amount of State tax committed,	$3,992 00	
Amount of County tax committed,	7,785 57	
Amount of City tax committed,	66,671 26	
Amount of interest,	89 16—	$78,537 99

Received of Collector, as follows:—

By cash paid County tax,	$7,785 57	
By cash,	65,750 86	
By discount allowed on taxes,	3,420 00	
By abatements allowed on taxes,	1,581 56—	$78,537 99

Rate—Eight dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, JOSEPH INGRAHAM, *City Treasurer.*

TAXES—1859—FRANCIS NORTON, Collector.

Amount of State tax committed,	$3,330 00	
Amount of County tax committed,	8,336 26	
Amount of City tax committed,	67,258 20—	$78,924 46
Received of Collector, as follows:—		
By cash paid State and City tax,	$66,139 99	
By cash paid County tax,	8,336 26	
Discount on taxes,	3,386 42	
Abatements,	1,061 79—	$78,924 46

Rate—Eight dollars and fifty cents on one thousand dollars. Poll tax, one dollar and fifty cents.

Attest, HORACE C. LEE, *City Treasurer*

TAXES—1860—FRANCIS NORTON, Collector.

Amount of State tax committed,	$2,775 00	
Amount of County tax committed,	8,892 01	
Amount of City tax committed,	67,393 88	
Additional taxes,	97 37—	$79,158 26
Received of Collector, as follows:—		
By cash paid State tax,	$2,775 00	
By cash paid County tax,	8,892 01	
By cash paid City tax,	62,880 91	
Discount on taxes,	3,484 90	
Abatements,	1,125 44—	$79,158 26

Rate—Eight dollars and twenty cents on one thousand dollars. Poll tax, one dollar and fifty cents.

Attest, HORACE C. LEE, *City Treasurer.*

TAXES—1861—FRANCIS NORTON, Collector.

Amount of State tax committed,	$3,069 00	
Amount of County tax committed,	12,477 16	
Amount of City tax committed,	68,247 59—	$83,793 75
Received of Collector, as follows:—		
By cash paid State tax,	$3,069 00	
By cash paid County tax,	12,477 16	
By cash paid City tax,	63,429 64	
Discount on taxes,	3,663 47	
Abatements,	1,154 48—	$83,793 75

Rate—Eight dollars and twenty cents on one thousand dollars. Poll tax, one dollar and fifty cents.

Attest. HENRY SMITH, *City Treasurer.*

TAXES—1862—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$18,414 00	
Amount of County tax committed,	9,548 85	
Amount of City tax committed,	70,011 16—	$97,974 01
Received of Collector, as follows:—		
By cash paid State tax,	$18,414 00	
By cash paid County tax,	9,548 85	
By cash paid City tax,	63,543 70	
Discount on taxes,	4,334 94	
Abatements,	2,132 52—	$97,974 01

Rate—Nine dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1863—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$24,552 00	
Amount of County tax committed,	8,593 96	
Amount of City tax committed,	77,097 14	
Amount assessed for re-imbursement of bounties,	10,000 00—	$120,248 10
Received of Collector, as follows:—		
By cash paid State tax,	$24,552 00	
By cash paid County tax,	8,593 96	
By cash paid City tax,	79,623 17	
Discount on taxes,	5,375 67	
Abatements,	2,098 30—	$120,248 10

Rate—Ten dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1864—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$24,552 00	
Amount of County tax committed,	9,568 32	
Amount of City tax committed,	142,882 52—	$177,002 84
Received of Collector, as follows:—		
By cash paid State tax,	$24,552 00	
By cash paid County tax,	9,568 32	
By cash paid City tax,	130,551 60	
Discount on taxes,	7,940 65	
Abatements,	4,390 27—	$177,002 84

Rate—Fourteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1865—FRANCIS NORTON, Collector.

Amount of State tax committed,	$66,975 00	
Amount of County tax committed,	11,428 37	
Amount of City tax committed,	143,629 17—	$222,032 54
Received of Collector, as follows:—		
By cash paid State tax,	66,975 00	
By cash paid County tax,	11,428 37	
By cash on account of City tax,	131,334 23	
Discount on taxes,	10,171 91	
Abatements,	2,123 03—	$222,032 54

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1866—FRANCIS NORTON, Collector.

Amount of State tax committed,	$42,750 00	
Amount of County tax committed,	11,822 45	
Amount of City tax committed,	226,741 91—	$281,314 36
Received of Collector, as follows:—		
Cash for State tax,	$42,750 00	
Cash for County tax,	11,822 45	
Cash on account of City tax,	211,659 65	
Discount on taxes,	12,966 25	
Abatements,	2,116 01—	$281,314 36

Rate—Eighteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1867—FRANCIS NORTON, Collector.

Amount of State tax committed,	$71,250 00	
Amount of County tax committed,	17,339 56	
Amount of City tax committed,	227,527 35—	$316,116 91
Received of Collector, as follows:—		
Cash for State tax,	$71,250 00	
Cash for County tax,	17,339 56	
Cash on account of City tax,	210,196 47	
Discount on taxes,	14,560 04	
Abatements,	2,770 84—	$316,116 91

Rate—Seventeen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1868—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$28,500 00	
Amount of County tax committed,	12,610 62	
Amount of City tax committed,	247,127 54—	$288,238 16
Received of Collector, as follows:—		
Cash for State tax,	$28,500 00	
Cash for County tax,	12,610 62	
Cash on account of City tax,	231,850 21	
Discount on taxes,	13,197 98	
Abatements,	2,079 85—	$288,238 16

Rate—Thirteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1869—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$35,625 00	
Amount of County tax committed,	14,388 96	
Amount of City tax committed,	339,671 92—	$389,680 88
Received of Collector, as follows:—		
Cash for State tax,	$36,625 00	
Cash for County tax,	14,383 96	
Cash on account of City tax,	318,641 98	
Discount on taxes,	17,833 71	
Abatements,	2,196 23—	$389,680 88

Rate—Sixteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1870—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$35,625 00	
Amount of County tax committed,	15,172 12	
Amount of City tax committed,	261,859 60—	$312,656 72
Received of Collector, as follows:—		
Cash for State tax,	$35,625 00	
Cash for County tax,	15,172 12	
Cash on account of City tax,	245,259 08	
Discount on taxes,	14,304 96	
Abatements,	2,295 56—	$312,656 72

Rate—Twelve dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1871—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$35,625 00	
Amount of County tax committed,	15,526 80	
Amount of City tax committed,	312,799 32—	$363,951 12
Received of Collector, as follows:—		
Cash for State tax,	$35,625 00	
Cash for County tax,	15,526 80	
Cash on account of City tax,	292,764 80	
Discount on taxes,	16,710 69	
Abatements,	3,323 83—	$363,951 12

Rate—Twelve dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1872—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$38,320 00	
Amount of County tax committed,	20,747 69	
Amount of City tax committed,	393,099 26—	$452,166 95
Received of Collector, as follows:—		
Cash for State tax,	$38,320 00	
Cash for County tax,	20,747 69	
Cash on account of City tax,	368,985 13	
Discount on taxes,	20,584 78	
Abatements,	3,529 35—	$452,166 95

Rate—Thirteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1873—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$43,110 00	
Amount of County tax committed,	42,131 39	
Amount of City tax committed,	529,503 73—	$614,745 12
Received of Collector, as follows:—		
Cash for State tax,	$43,110 00	
Cash for County tax,	42,131 39	
Cash on account of City tax,	496,857 73	
Discount on taxes,	26,736 54	
Abatements,	5,909 46—	$614,745 12

Rate—Sixteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1874—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$38,320 00	
Amount of County tax committed,	42,131 39	
Amount of City tax committed,	568,425 45—	$648,876 84
Received of Collector, as follows:—		
By cash paid State tax,	$38,320 00	
By cash paid County tax,	42,131 39	
By cash on account of City tax,	535,296 21	
Discount on taxes,	29,125 82	
Abatements,	4,003 42—	$648,876 84

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1875—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$38,320 00	
Amount of County tax committed,	37,467 61	
Amount of City tax committed,	620,301 03	
Amount of Bank tax committed,	40,310 37—	$736,399 01
Received of Collector, as follows:—		
By cash for State tax,	$38,320 00	
By cash for County tax,	37,467 61	
By cash for Bank tax,	40,310 37	
By cash on account of City tax,	579,921 45	
Discount on taxes,	32,583 17	
Abatements,	7,796 41—	$736,399 01

Rate—Seventeen dollars and twenty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1876—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$39,654 00	
Amount of County tax committed,	40,938 55	
Amount of City tax committed,	503,720 65	
Amount of Bank tax committed,	36,534 12	
Additional poll tax committed,	160 00—	$621,007 32

Received of Collector, as follows:—

Cash for State tax,	$39,654 00	
Cash for County tax,	40,938 55	
Cash for Bank tax,	36,534 12	
Cash on account of City tax,	498,615 64	
Property deeded to the city,	587 28	
Abatements,	4,677 73—	$621,007 32

Rate—Sixteen dollars and twenty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1877—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$33,045 00	
Amount of County tax committed,	40,938 55	
Amount of City tax committed,	340,216 54	
Amount of Bank tax committed,	28,840 49	
Additional taxes,	82 30—	$443,122 88

Received of Collector, as follows:—

Amount of State tax,	33,045 00	
Amount of County tax,	40,938 55	
On account of Bank tax,	28,834 62	
On account of City tax,	336,429 04	
Property deeded to the city,	48 43	
Abatements,	3,768 74	
Allowed amount assessed on property deeded to the city,	58 50—	$443,122 88

Rate—Thirteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1878—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$22,030 00	
Amount of County tax committed,	40,938 55	
Amount of City tax committed,	275,447 38	
Amount of Bank tax committed,	22,658 06	
Additional taxes,	85 85—	$361,159 84

Received of Collector, as follows:—		
Amount of State tax,	$22,030 00	
Amount of County tax,	40,938 55	
Amount of Bank tax,	22,658 06	
On account of City tax,	273,493 98	
Abatements,	2,011 75	
Tax on property deeded to the City,	27 50—	$361,159 84

Rate—Eleven dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1879—FRANCIS NORTON, COLLECTOR.

Amount of City tax committed,	$11,015 00	
Amount of County tax committed,	35,053 64	
Amount of Bank tax committed,	24,471 90	
Amount of City tax committed,	322,687 25	
Additional taxes,	206 80—	$393,434 59
Received of Collector, as follows:—		
Amount of State tax,	$11,015 00	
Amount of County tax,	35,053 64	
Amount of Bank tax,	24,471 90	
On account of City tax,	320,912 99	
Abatements,	1,981 06—	$393,434 59

Rate—Twelve dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1880—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$33,045 00	
Amount of County tax committed,	39,403 21	
Amount of Bank tax committed,	32,586 12	
Amount of City tax committed,	349,164 57	
Additional taxes,	222 50—	$454,421 40
Received of Collector, as follows:—		
Amount of State tax,	$33,045 00	
Amount of County tax,	39,403 21	
Amount of Bank tax,	32,586 12	
On account of City tax,	347,583 21	
Abatements,	1,803 86—	$454,421 40

Rate—Thirteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1881—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$33,045 00	
Amount of County tax committed,	39,403 21	
Amount of Bank tax committed,	33,635 12	
Amount of City tax committed,	354,234 92	
Additional taxes,	45 50—	$460,363 75
Received of Collector, as follows:—		
Amount of State tax,	$33,045 00	
Amount of County tax,	39,403 21	
Amount of Bank tax,	33,635 12	
On account of City tax,	351,854 12	
Abatements,	2,426 30—	$460,363 75

Rate—Twelve dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1882—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$44,060 00	
Amount of County tax committed,	39,403 21	
Amount of Bank tax committed,	34,105 64	
Amount of City tax committed,	363,421 26	
Additional taxes,	8 50—	$480,998 61
Received of Collector, as follows:—		
Amount of State tax,	$44,060 00	
Amount of County tax,	39,403 21	
Amount of Bank tax,	34,105 64	
On account of City tax,	360,556 41	
Abatements,	2,873 35—	$480,998 61

Rate—Twelve dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1883—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$31,425 00	
Amount of County tax committed,	38,245 42	
Amount of Bank tax committed,	36,619 51	
Amount of City tax committed,	385,793 81	
Additional taxes,	92 50—	$492,176 24

Received of Collector, as follows:—

Amount of State tax,	$31,425 00	
Amount of County tax,	38,245 42	
Amount of Bank tax,	36,619 51	
On account of City tax,	383,823 75	
Abatements,	2,162 56—	$492,176 24

Rate—Twelve dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1884—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$41,900 00	
Amount of County tax committed,	38,245 42	
Amount of Bank tax committed,	41,894 21	
Amount of City tax committed,	431,005 50	
Additional taxes,	4 00—	$553,049 13

Received of Collector, as follows:—

Amount of State tax,	$41,900 00	
Amount of County tax,	38,245 42	
Amount of Bank tax,	41,894 21	
On account of City tax,	427,652 29	
Abatements,	3,357 21—	$553,049 13

Rate—Fourteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1885—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$31,425 00	
Amount of County tax committed,	38,245 42	
Amount of Bank tax, committed,	38,162 97	
Amount of City tax, committed,	409,445 89	
Additional taxes,	66 00—	$517,345 28

Received of Collector, as follows:—

Amount of State tax,	$31,425 00	
Amount of County tax,	38,245 42	
Amount of Bank tax,	38,162 97	
On account of City tax,	406,792 80	
Property deeded to the city,	28 16	
Abatements,	2,691 33—	$517,345 28

Rate—Twelve dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1886—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$31,695 00	
Amount of County tax committed,	44,158 00	
Amount of Bank tax committed,	38,668 51	
Amount of City tax committed,	415,896 19	
Additional taxes,	17 52—	$530,435 22
Received of Collector, as follows:—		
State tax,	$31,695 00	
County tax,	44,158 00	
Bank tax,	38,668 51	
On account of City tax,	413,144 15	
Abatements,	2,769 56—	$530,435 22

Rate—Twelve dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, A. T. FOLSOM, *City Treasurer.*

TAXES—1887—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$47,542 50	
Amount of County tax committed,	44,158 00	
Amount of Bank tax committed,	44,247 57	
Amount of City tax committed,	453,960 76	
Additional taxes,	128 26—	$590,037 09
Received of Collector, as follows:—		
State tax,	$47,542 50	
County tax,	44,158 00	
Bank tax,	44,247 57	
On account of City tax,	450,932 44	
Abatements,	3,156 58—	$590,037 09

Rate—Thirteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1888—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$47,542 50	
Amount of County tax committed,	44,158 00	
Amount of Bank tax committed,	43,584 53	
Amount of City tax committed,	473,472 26	
Additional taxes,	227 16	
Additional taxes committed in 1889,	16 32—	$609,000 77

Received of Collector, as follows:—

State tax,	$47,542 50	
County tax,	44,158 00	
Bank tax,	43,584 53	
On account of City tax,	469,724 78	
Abatements,	3,990 96—	$609,000 77

Rate—Thirteen dollars and sixty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1889—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$41,220 00	
Amount of County tax committed,	44,028 53	
Amount of Bank tax committed,	40,448 78	
Amount of City tax committed,	485,993 44	
Additional taxes,	140 60—	$611,831 35

Received of Collector, as follows:—

State tax,	$41,220 00	
County tax,	44,028 53	
Bank tax,	40,448 78	
On account of City tax,	481,275 80	
Abatements,	4,858 24—	$611,831 35

Rate—Thirteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1890—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$36,067 50	
Amount of County tax committed,	45,418 77	
Amount of Bank tax committed,	37,692 73	
Amount of City tax committed,	495,243 78	
Additional taxes,	276 76—	$614,699 54

Received of Collector, as follows:—

State tax,	$36,067 50	
County tax,	45,418 77	
Bank tax,	37,692 73	
On account of City tax,	490,851 60	
Abatements,	4,668 94—	$614,699 54

Rate—Twelve dollars and forty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1891—FRANCIS NORTON, Collector.

Amount of State tax committed,	$30,915 00	
Amount of County tax committed,	45,418 77	
Amount of Bank tax committed,	36,646 82	
Amount of City tax committed,	553,851 16—	$666,831 75

Received of Collector, as follows:—

State tax,	$30,915 00	
County tax,	45,418 77	
Bank tax,	36,646 82	
On account of City tax,	548,216 54	
Abatements,	5,634 62—	$666,831 75

Rate—Twelve dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1892—FRANCIS NORTON, Collector.

Amount of State tax committed,	$38,675 00	
Amount of County tax committed,	53,033 00	
Amount of Bank tax committed,	38,818 82	
Amount of City tax committed,	596,452 83—	$726,979 65

Received of Collector, as follows:—

State tax,	$38,675 00	
County tax,	53,033 00	
Bank tax,	38,818 82	
On account of City tax,	589,838 41	
Abatements,	6,614 42—	$726,979 65

Rate—Thirteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1893—FRANCIS NORTON, Collector.

Amount of State tax committed,	$55,250 00	
Amount of County tax committed,	62,675 00	
Amount of Bank tax committed,	38,466 70	
Amount of City tax committed,	618,271 32—	$774,663 02

Received of Collector, as follows:—

State tax,	$55,250 00	
County tax,	62,675 00	
Bank tax,	38,466 70	
City tax,	611,552 58	
Abatements,	6,718 74—	$774,663 02

Rate—Twelve dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1894—FRANCIS NORTON, Collector.

Amount of State tax committed,	$44,200 00	
Amount of County tax committed,	62,675 00	
Amount of Bank tax committed,	35,209 74	
Amount of City tax committed,	595,401 96	
Amount of Military Armory tax committed,	2,303 70	
Amount of Armory Street Crossing tax committed,	2,194 04—	$741,984 44

Received of Collector as follows: —

State tax,	$44,200 00	
County tax,	62,675 00	
Bank tax,	35,209 74	
City tax,	589,804 74	
Military Armory tax,	2,303 70	
Armory Street Crossing tax,	2,194 04	
Abatements,	5,597 22—	$741,984 44

Rate—Twelve dollars on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1895—FRANCIS NORTON, Collector.

Amount of State tax committed,	$35,205 00	
Amount of County tax committed,	66,133 41	
Amount of Bank tax committed,	37,037 29	
Amount of City tax committed,	643,830 21	
Amount of Military Armory tax committed,	6,153 70—	$788,359 61

Received of Collector as follows: —

State tax,	$35,205 00	
County tax,	66,133 41	
Bank tax,	37,037 29	
City tax,	637,697 06	
Military Armory tax,	6,153 70	
Abatements,	6,133 15—	$788,359 61

Rate—Twelve dollars and twenty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1896—FRANCIS NORTON, Collector.

Amount of State tax committed,	$41,072 50	
Amount of County tax committed,	80,829 55	
Amount of Bank tax committed,	37,071 98	
Amount of City tax committed,	691,449 98	
Amount of Military Armory tax committed,	5,603 70—	$856,027 71

Received of Collector, as follows:—

State tax,	$41,072 50	
County tax,	80,829 55	
Bank tax,	37,071 98	
On account of City tax,	683,871 05	
Military Armory tax,	5,603 70	
Abatements,	7,578 93—	$856,027 71

Rate—Twelve dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1897—FRANCIS NORTON, Collector.

Amount of State tax committed,	$41,072 50	
Amount of County tax committed,	80,535 73	
Amount of Bank tax committed,	37,144 65	
Amount of City tax committed,	749,880 35	
Amount of Military Armory tax committed,	5,603 70	
Amount of Pasco Road Crossing tax committed,	1,119 53—	$915,356 46

Received of Collector, as follows:—

State tax,	$41,072 50	
County tax,	80,535 73	
Bank tax,	37,144 65	
On account of City tax,	739,002 40	
Military Armory tax,	5,603 70	
Pasco Road Crossing tax,	1,119 53	
Abatements,	10,877 95—	$915,356 46

Rate—Thirteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1898—FRANCIS NORTON, Collector.

Amount of State tax committed,	$37,065 00	
Amount of County tax committed,	74,492 50	
Amount of Bank tax committed,	39,861 94	
Amount of City tax committed,	824,605 39	
Amount of Military Armory tax committed,	5,603 70—	$981,628 53

Received of Collector, as follows:—

State tax,	$37,065 00	
County tax,	74,492 50	
Bank tax,	39,861 94	
On account of City tax,	816,731 39	
Military Armory tax,	5,603 70	
Abatements,	7,874 00—	$981,628 58

Rate—Thirteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1899—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$37,065 00	
Amount of County tax committed,	71,552 15	
Amount of Bank tax committed,	38,572 49	
Amount of City tax committed,	873,003 21	
Amount of Military Armory tax committed,	5,603 70	
Amount Excise tax Springfield Street Railway committed,	8,312 06—	$1,034,108 61

Received of Collector, as follows:—

State tax,	$37,065 00	
County tax,	71,552 15	
Bank tax,	38,572 49	
On account of City tax,	862,659 73	
Military Armory tax,	5,603 70	
Excise tax Springfield Street Railway,	8,312 06	
Abatements,	10,343 48—	$1,034,108 61

Rate—Thirteen dollars and sixty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1900—FRANCIS NORTON, COLLECTOR.

Amount of State tax committed,	$37,065 00	
Amount of County tax committed,	70,856 77	
Amount of Bank tax committed,	39,652 49	
Amount of City tax committed,	923,295 17	
Amount of Military Armory tax committed,	5,603 70	
Amount of Excise Tax Springfield Street Railway,	8,596 72—	$1,085,069 85

Received of Collector, as follows:—

State tax,	$37,065 00	
County tax,	70,856 77	
Bank tax,	39,652 49	
On account of City tax,	912,332 16	
Military Armory tax,	5,603 70	
Excise tax Springfield Street Railway,	8,596 72	
Abatements,	10,963 01—	$1,085,069 85

Rate—Thirteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1901—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	$43,365 00	
Amount of County tax committed,	72,385 61	
Amount of Bank tax committed,	40,569 51	
Amount of City tax committed,	956,391 03	
Amount of Military Armory tax committed,	5,603 70	
Amount of Excise tax Springfield Street Railway committed,	9,349 30—	$1,127,664 15

Received of Collector, as follows:—

State tax,	$43,365 00	
County tax,	72,385 61	
Bank tax,	40,569 51	
On account of City tax,	944,902 66	
Military Armory tax,	5,603 70	
Excise tax Springfield Street Railway,	9,349 30	
Abatements,	11,488 37—	$1,127,664 15

Rate—Fourteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, E. T. TIFFT, *City Treasurer.*

TAXES—1902—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	$37,170 00	
Amount of County tax committed,	72,385 61	
Amount of Bank tax committed,	37,593 93	
Amount of City tax committed,	1,008,776 42	
Amount of Military Armory tax committed,	5,603 70	
Amount of Excise tax Springfield Street Railway committed,	10,086 82—	$1,171,616 48

Received of Collector, as follows: —

State tax,	$37,170 00	
County tax,	72,385 61	
Bank tax,	37,593 93	
On account of City tax,	998,837 34	
Military Armory tax,	5,603 70	
Excise tax Springfield Street Railway,	10,086 82	
Abatements,	9,939 08—	$1,171,616 48

Rate — Fourteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1903—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	$61,950 00	
Amount of County tax committed,	72,385 61	
Amount of Bank tax committed,	37,031 75	
Amount of City tax committed,	1,027,475 06	
Amount of Military Armory tax committed,	5,603 70	
Amount of Excise tax Springfield Street Railway committed,	10,961 60—	$1,215,407 72

Received of Collector, as follows: —

State tax,	$61,950 00	
County tax,	72,385 61	
Bank tax,	37,031 75	
On account of City tax,	1,018,133 58	
Military Armory tax,	5,603 70	
Excise tax Springfield Street Railway,	10,961 60	
Abatements,	9,341 48—	$1,215,407 72

Rate—Fourteen dollars and sixty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1904—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	$61,850 00	
Amount of County tax committed,	80,546 62	
Amount of Bank tax committed,	36,153 43	
Amount of City tax committed,	1,047,146 48	
Amount of Military Armory tax committed,	5,677 17	
Amount of Excise tax Springfield Street Railway committed,	11,353 26—	$1,242,726 96

Received of Collector, as follows:—

State tax,	$61,850 00	
County tax,	80,546 62	
Bank tax,	36,153 43	
On account of City tax,	1,038,340 29	
Military Armory tax,	5,677 17	
Excise tax Springfield Street Railway,	11,353 26	
Abatements,	8,806 19—	$1,242,726 96

Rate—Fourteen dollars and sixty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1905—WILLIAM H. C. AUGUR, Collector.

Amount of State tax committed,	$98,960	
Amount of County tax committed,	74,932 77	
Amount of Bank tax committed,	39,209 52	
Amount of City tax committed,	1,109,312 49	
Amount of Military Armory tax committed,	6,728 38	
Amount of Grade Crossing tax committed,	1,177 05	
Amount of Excise tax Springfield Street Railway committed,	12,132 26—	$1,342,452 47

Received of Collector as follows: —

State tax,	$98,960	
County tax,	74,932 77	
Bank tax,	39,209 52	
On account of City tax,	1,086,334 51	
Military Armory tax,	6,728 38	
Grade Crossing tax,	1,177 05	
Excise tax Springfield Street Railway,	12,132 26	
Abatements,	12,120 49—	$1,321,594 98

Rate—Fifteen dollars and forty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1906—CHARLES A. FRAZER, Collector.

Amount of State tax committed,	$86,590 00	
Amount of County tax committed,	89,968 08	
Amount of Bank tax committed,	26,876 53	
Amount of City tax committed,	1,155,462 14	
Amount of Military Armory tax committed,	6,611 06	
Amount of Grade Crossing tax committed,	1,111 66	
Amount of Excise tax Springfield Street Railway committed,	12,856 06	
Amount of Special Census tax committed,	820 78—	$1,380,296 31

Received of Collector as follows: —

State tax,	$86,590 00	
County tax,	89,968 08	
Bank tax,	26,876 53	
On account of City tax,	941,534 42	
Military Armory tax,	6,611 06	
Grade Crossing tax,	1,111 66	
Excise tax Springfield Street Railway,	12,856 06	
Special Census,	820 78—	$1,166,368 59

ASSESSORS' VALUATION OF PROPERTY.

1852—Total valuation,		$5,180,210 00
1853—Total valuation,		5,509,660 00
1854—Total valuation,		7,762,250 00
1855—Total valuation,		8,409,870 00
1856—Total valuation,		8,284,060 00
1857—Total valuation,		8,558,720 00
1858—Real estate,	$5,702,040 00	
Personal estate,	2,679,100 00	8,381,140 00
1859—Real estate,	5,794,590 00	
Personal estate,	2,845,640 00	8,640,230 00
1860—Real estate,	5,962,480 00	
Personal estate,	2,955,800 00	8,918,280 00
1861—Real estate,	6,417,660 00	
Personal estate,	3,067,920 00	9,485,580 00
1862—Real estate,	6,719,500 00	
Personal estate,	3,039,390 00	9,758,890 00
1863—Real estate,	7,211,320 00	
Personal estate,	3,744,790 00	10,956,110 00
1864—Real estate,	8,536,490 00	
Personal estate,	2,871,430 00	11,407,920 00
1865—Real estate,	9,007,850 00	
Personal estate,	3,784,910 00	12,792,760 00
1866—Real estate,	10,241,540 00	
Personal estate,	4,755,480 00	14,997,020 00
1867—Real estate,	12,758,420 00	
Personal estate,	5,110,810 00	17,869,230 00
1868—Real estate,	15,125,520 00	
Personal estate,	5,322,640 00	20,448,160 00
1869—Real estate,	17,665,610 00	
Personal estate,	5,901,570 00	23,567,180 00
1870—Real estate,	18,443,990 00	
Personal estate,	6,070,070 00	24,514,060 00
1871—Real estate,	20,962,100 00	
Personal estate,	6,589,870 00	27,551,970 00

1872—	Real estate, ...	$26,098,920	00		
	Personal estate, ...	7,512,230	00	$33,611,150	00
1873—	Real estate, ...	29,380,520	00		
	Personal estate, ...	8,060,300	00	37,440,820	00
1874—	Real estate, ...	30,489,850	00		
	Personal estate, ...	7,846,928	00	38,336,778	00
1875—	Real estate, ...	31,125,660	00		
	Personal estate, ...	8,398,912	40	39,524,572	40
1876—	Real estate, ...	27,647,560	00		
	Personal estate, ...	7,461,896	86	35,109,456	86
1877—	Real estate, ...	23,737,000	00		
	Personal estate, ...	6,955,776	66	30,692,776	66
1878—	Real estate, ...	22,746,330	00		
	Personal estate, ...	6,637,845	72	29,384,175	72
1879—	Real estate, ...	22,211,230	00		
	Personal estate, ...	7,230,094	00	29,441,324	00
1880—	Real estate, ...	22,856,020	00		
	Personal estate, ...	8,292,655	00	31,148,675	00
1881—	Real estate, ...	23,795,920	00		
	Personal estate, ...	8,935,850	00	32,731,770	00
1882—	Real estate, ...	25,084,420	00		
	Personal estate, ...	9,198,258	00	34,282,678	00
1883—	Real estate, ...	25,676,800	00		
	Personal estate, ...	9,260,459	00	34,937,259	00
1884—	Real estate, ...	26,301,150	00		
	Personal estate, ...	8,792,666	00	35,093,816	00
1885—	Real estate, ...	26,969,800	00		
	Personal estate, ...	8,865,928	00	35,835,728	00
1886—	Real estate, ...	27,638,760	00		
	Personal estate, ...	9,143,442	00	36,782,202	00
1887—	Real estate, ...	28,566,280	00		
	Personal estate, ...	9,416,384	17	37,982,664	17
1888—	Real estate, ...	30,323,140	00		
	Personal estate, ...	9,540,115	14	39,863,255	14
1889—	Real estate, ...	32,000,680	00		
	Personal estate, ...	10,072,895	00	42,073,575	00
1890—	Real estate, ...	33,795,860	00		
	Personal estate, ...	10,697,773	00	44,493,633	00
1891—	Real estate, ...	37,219,490	00		
	Personal estate, ...	11,110,144	00	48,329,634	00

1892—Real estate, ...	$39,444,580 00	
Personal estate, ...	11,336,407 00	$50,780,987 00
1893—Real estate, ...	42,975,820 00	
Personal estate, ...	12,264,099 00	55,239,919 00
1894—Real estate, ...	44,083,900 00	
Personal estate, ...	12,365,525 00	56,449,425 00
1895—Real estate, ...	46,063,460 00	
Personal estate, ...	12,969,681 00	59,033,141 00
1896—Real estate, ...	48,344,280 00	
Personal estate, ...	13,071,811 00	61,416,091 00
1897—Real estate, ...	50,344,460 00	
Personal estate, ...	14,553,919 00	64,898,379 00
1898—Real estate, ...	52,022,570 00	
Personal estate, ...	13,677,143 00	65,699,713 00
1899—Real estate, ...	53,400,770 00	
Personal estate, ...	16,469,077 00	69,869,847 00
1900—Real estate, ...	55,676,320 00	
Personal estate, ...	16,682,161 00	72,358,481 00
1901—Real estate, ...	57,394,710 00	
Personal estate, ...	16,944,217 00	74,338,927 00
1902—Real estate, ...	58,411,160 00	
Personal estate, ...	16,424,905 40	74,836,065 40
1903—Real estate, ...	60,787,130 00	
Personal estate, ...	16,420,768 80	77,207,898 80
1904—Real estate, ...	62,145,950 00	
Personal estate, ...	16,722,107 80	78,868,057 80
1905—Real estate, ...	63,273,330 00	
Personal estate, ...	17,631,146 80	80,904,476 80
1906—Real estate, ...	68,239,990 00	
Personal estate, ...	18,265,191 00	86,505,181 00

CITY OFFICERS.

CITY OFFICERS.

CITY OFFICERS FOR 1852.

Mayor—CALEB RICE.

Aldermen—Ward One, Samuel S. Day; Ward Two, Eliphalet Trask; Ward Three, E. D. Beach; Ward Four, George Dwight; Ward Five, Albert Morgan; Ward Six, Charles G. Rice; Ward Seven, Oliver B. Bannon; Ward Eight, F. A. Barton.

Clerk—Joseph Ingraham.

Common Councilmen—President, Henry Morris; Ward One, J. B. M. Stebbins, Eleazer Ripley, John V. Jones; Ward Two, W. C. Sturtevant, Francis Bates, Henry Fuller, Jr.; Ward Three, Charles Merriam, Willis Phelps, Cicero Simons; Ward Four, Henry Morris, Alexander H. Avery, Benjamin F. Warner; Ward Five, William Hitchcock, Hiram Q. Sanderson, Nathaniel Cate; Ward Six, Henry Adams; Ward Seven, Ezra Kimberly; Ward Eight, Rodney Holt.

Clerk—Alanson Hawley.

City Clerk and Treasurer—Joseph Ingraham.

CITY OFFICERS FOR 1853.

Mayor—CALEB RICE.

Aldermen—Ward One, John B. Stebbins; Ward Two, Eliphalet Trask; Ward Three, Willis Phelps; Ward Four, Henry Vose; Ward Five, Titus Amadon; Ward Six, Drayton Perkins; Ward Seven, Joseph N. Sollace; Ward Eight, Harvey Foster.

Clerk—Joseph Ingraham.

Common Councilmen—President, Henry Morris (resigned May 16), William Stowe; Ward One, Daniel Hitchcock, William Pynchon, Addison Day; Ward Two, Joseph C. Pynchon, Orrin Baker, E. W. Bond; Ward Three, Lombard Dale, T. M. Walker, William Stowe; Ward Four, Henry Morris, Alexander H. Avery, Edmund Palmer; Ward Five, Nathanie Cate, William Dickinson, Daniel Collins; Ward Six, Henry Adams; War Seven, Ezra Kimberly; Ward Eight, William S. Barker.

Clerk—Alanson Hawley (resigned March 7), Samuel O. Gay.

City Clerk and Treasurer—Joseph Ingraham.

CITY OFFICERS FOR 1854.

Mayor—PHILOS B. TYLER.

Aldermen—Ward One, Wilson Eddy; Ward Two, Eliphalet Trask; Ward Three, Elkanah Barton; Ward Four, William L. Washburn; Ward Five, Edward F. Moseley; Ward Six, Roderick Lombard; Ward Seven, Joseph Lombard; Ward Eight, Rodney Holt.

Clerk—Joseph Ingraham.

Common Councilmem—President, Samuel S. Day; Ward One, Asa Clark, Samuel S. Day, Thomas W. Wason; Ward Two, George H. Roberts, Henry A. Robinson, Roderick Ashley; Ward Three, Philo F. Wilcox, Lombard Dale, Frederick H. Harris; Ward Four, Daniel L. Harris, Tilly Haynes, Joseph B. Hopkins; Ward Five, Daniel Collins, G. W. Harrison, A. H. Clark; Ward Six, Edwin S. Hall; Ward Seven, Harris B. Johnson; Ward Eight, Horace Pease.

Clerk—Charles O. Chapin.

City Clerk and Treasurer—Joseph Ingraham.

CITY OFFICERS FOR 1855.

Mayor—ELIPHALET TRASK.

Aldermen—Ward One, James M. Blanchard; Ward Two, W. C. Sturtevant; Ward Three, David Smith; Ward Four, Daniel Reynolds; Ward Five, William E. Montague; Ward Six, Henry Adams; Ward Seven, James P. Chapman; Ward Eight, Harvey Foster.

Clerk—Joseph Ingraham.

Common Councilmen—President, John M. Stebbins; Ward One, E. B. Haskell, John M. Stebbins, Stephen Morse; Ward Two, O. W. Wilcox, John Hooker, 3d, D. H. Brigham; Ward Three, Francis S. Graves, Rufus Elmer, E. W. Dickinson; Ward Four, Abel B. Howe, John W. Hunt, Jeremiah R. Cadwell; Ward Five, Nathaniel Howard, S. S. Holmes, E. F. Moseley; Ward Six, J. G. Capron; Ward Seven, Luther S. Lewis; Ward Eight, Samuel Webber.

Clerk—Thomas Chubbuck.

City Clerk and Treasurer Joseph Ingraham.

CITY OFFICERS FOR 1856.

Mayor—ANSEL PHELPS, Jr.

Aldermen—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Edmund Freeman; Ward Four, Stephen C. Bemis; Ward Five, Thomas H. Allen; Ward Six, Henry Alexander, Jr.; Ward Seven, Henry Reynolds; Ward Eight, Samuel Webber.

Clerk—Joseph Ingraham.

Common Councilmen—President, James Kirkham; Ward One, Charles O. Russell, Chauncey L. Covell, Hervey Hills; Ward Two, O. W. Wilcox, Henry A. Chapin, Dexter H. Brigham; Ward Three, Dr. Nathan Adams, Charles L. Shaw, George Whitney; Ward Four, James Kirkham, George Walker, John W. Hunt; Ward Five, Otis A. Seamans, E. F. Moseley, Nelson Tyler; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, Milton Foster.

Clerk—Charles O. Chapin.

City Clerk and Treasurer—Joseph Ingraham.

CITY OFFICERS FOR 1857.

Mayor—ANSEL PHELPS, Jr.

Aldermen—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr.

Clerk—Joseph Ingraham.

Common Councilmen—President, George Walker; Ward One, Charles O. Russell, Chauncey L. Covell, James Stebbins; Ward Two, Erastus Hayes, Lyman King, Francis B. Bacon; Ward Three, Marvin Lincoln, Henry Avery, John R. Hixon; Ward Four, George Walker, Samuel Leonard, William Birnie; Ward Five, Charles Woodman, Luther Upton, George A. Otis; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, George A. Cooley.

Clerk—Charles O. Chapin.

City Clerk and Treasurer—Joseph Ingraham.

CITY OFFICERS FOR 1858.

Mayor—ANSEL PHELPS, Jr.

Aldermen—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr. (resigned), E. A. Fuller.

Clerk—Joseph Ingraham.

Common Councilmen—President, John R. Hixon; Ward One, Wilson Eddy, William Pynchon, William L. Smith; Ward Two, Randolph E. Ladd, Ambrose N. Merrick, Charles B. Trask; Ward Three, John R. Hixon, Henry A. Chapin, Gurdon Bill; Ward Four, Samuel Leonard, John W. Hunt, R. G. Shumway; Ward Five, Charles Woodman, George Swetland, John Brooks; Ward Six, Elbridge Barton; Ward Seven, Joseph Wheelock, Jr.; Ward Eight, Erastus King.

Clerk—Charles O. Chapin.

City Clerk and Treasurer—Joseph Ingraham.

CITY OFFICERS FOR 1859.

Mayor—WILLIAM B. CALHOUN.

Aldermen—Ward One, Chauncey L. Covell; Ward Two, Roger S. Moore; Ward Three, Edmund Freeman; Ward Four, Daniel L. Harris; Ward Five, William Hitchcock; Ward Six, J. G. Capron; Ward Seven, Horace Smith; Ward Eight, George W. Holt.

Clerk—Joseph Ingraham.

Common Councilmen—President, A. N. Merrick (resigned in May). Samuel Leonard; Ward One, Joshua M. Harrington, Justin M. Coole John V. Jones; Ward Two, George H. Roberts, Lewis H. Taylor, Gurdon C. Judson; Ward Three, A. N. Merrick, Daniel Gay, Hosea C. Lombard; Ward Four, Samuel Leonard, Alfred Rowe, Reuben T. Safford; Ward Five, Theodore Bishop, Walter Maynard, Walter North; Ward Six, Isaac D. Gibbons; Ward Seven, Ransley Hall; Ward Eight, Warren L. Shaw.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Joseph Ingraham.

CITY OFFICFRS FOR 1860.

Mayor—DANIEL L. HARRIS.

Aldedmen—Ward One, Edmund B. Haskell; Ward Two, Erastus Hayes; Ward Three, Franklin Chamberlain; Ward Four, John W. Hunt; Ward Five, William Hitchcock; Ward Six, John G. Capron; Ward Seven, William Foster; Ward Eight, George W. Holt.

Clerk—Horace C. Lee.

Common Councilmen—President, N. A. Leonard; Ward One, Joshua M. Harrington, H. S. Noyes, J. H. Demond; Ward Two, Lewis H. Taylor, George R. Townsley, Charles A. Winchester; Ward Three, William L. Wilcox, John Hamilton, Clark W. Bryan; Ward Four, N. A. Leonard, William Birnie, Alfred Rowe; Ward Five, William Higley, A. F. Strong, Charles Woodman; Ward Six, Robert Crossett; Ward Seven, Orrin Lombard; Ward Eight, Andrew J. Plumer.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Horace C. Lee.

CITY OFFICERS FOR 1861.

Mayor—STEPHEN C. BEMIS.

Aldermen—Ward One, Henry Gray; Ward Two, Ephriam W. Bond; Ward Three, H. N. Case; Ward Four, Nathaniel Howard; Ward Five, Charles Woodman; Ward Six, Amos Call; Ward Seven, William Smith; Ward Eight, A. J. Plumer.

Clerk—Horace C. Lee.

Common Councilmen—President, N. A. Leonard; Ward One, H. J. Chapin, J. M. Cooley, J. H. Demond; Ward Two, Lewis H. Taylor, D. H. Brigham, F. B. Bacon; Ward Three, William L. Wilcox, John Hamilton, James M. Skiff; Ward Four, N. A. Leonard, John W. Bliss, Alfred Rowe; Ward Five, William Higley, Otis A. Seamans, A. W. Allen; Ward Six, Aaron C. Barton; Ward Seven, Henry Reynolds; Ward Eight, H. E. Moseley.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Horace C. Lee.

CITY OFFICERS FOR 1862.

Mayor—STEPHEN C. BEMIS.

Aldermen—Ward One, Henry Gray; Ward Two, E. W. Bond; Ward Three, H. N. Case; Ward Four, T. W. Wason; Ward Five, Horace Kibbe; Ward Six, Horace Smith; Ward Seven, William Smith; Ward Eight, H. S. Evans.

Clerk—S. B. Spooner, Jr.

Common Councilmen—President, N. A. Leonard; Ward One, Horace J. Chapin, L. O. Hanson, L. J. Powers; Ward Two, Sylvester Day, Tim Henry, Eli H. Patch; Ward Three, James M. Skiff, J. E. Taylor, A. F. Jennings; Ward Four, N. A. Leonard, Alfred Rowe, T. M. Walker; Ward Five, P. V. B. Havens, George K. Jacobs, George K. Charter; Ward Six, Aaron C. Barton; Ward Seven, Ezekiel Keith; Ward Eight, H. E. Moseley.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Samuel B. Spooner (resigned September 30), A. T. Folsom.

CITY OFFICERS FOR 1863.

Mayor—HENRY ALEXANDER, Jr.

Aldermen—Ward One, Justin M. Cooley; Ward Two, William Patton; Ward Three, William K. Baker; Ward Four, Daniel L. Harris; Ward Five, William Bodurtha; Ward Six, Horace Smith; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

Clerk—A. T. Folsom.

Common Councilmen—President, N. A. Leonard; Ward One, N. W. Talcott, George S. Haskell, Luther Clark; Ward Two, O. H. Greenleaf, G. R. Townsley, John West; Ward Three, Aaron G. Lord, James M. Skiff, Francis S. Graves; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Cheney Bigelow, George K. Charter (resigned), Charles Phelps, Orlando Chapin (resigned), William Collins; Ward Six, J. G. Chase; Ward Seven, C. P. L. Warner; Ward Eight, Hiram Warner.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1864.

Mayor—HENRY ALEXANDER, Jr.

Aldermen—Ward One, Norman W. Talcott; Ward Two, William Patton; Ward Three, Albert D. Briggs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Harvey E. Moseley.

Clerk—A. T. Folsom.

Common Councilmen—President, N. A. Leonard; Ward One, Henry S. Hyde, John Mulligan, Charles H. Allen; Ward Two, O. H. Greenleaf, G. R. Townsley, J. F. Tannatt; Ward Three, Charles A. Winchester, W. H. Smith, A. N. Merrick; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Charles Phelps, William Collins, S. W. Porter; Ward Six, L. H. Taylor; Ward Seven, Peter Valentine; Ward Eight, George Foster.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1865.

Mayor—ALBERT D. BRIGGS.

Aldermen—Ward One, Henry S. Hyde; Ward Two, George R. Townsley; Ward Three, Otis Childs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

Clerk—A. T. Folsom.

Common Councilmen—President, Henry S. Lee; Ward One, John Mulligan, W. H. Allis, H. S. Noyes; Ward Two, Gideon Wells, John Olmsted, J. F. Tannatt; Ward Three, William H. Smith, J. F. Tapley, H. N. Tinkham; Ward Four, N. A. Leonard, Henry S. Lee, S. J. Hall; Ward Five, Charles Phelps, S. W. Porter, J. Q. A. Sexton; Ward Six, Gustavus D. Tapley; Ward Seven, Rawson Hathaway; Ward Eight, George Foster

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1866.

Mayor—ALBERT D. BRIGGS.

Aldermen—Ward One, William Pynchon; Ward Two, D. H. Brigham; Ward Three, Tim Henry; Ward Four, F. H. Harris; Ward Five, G. W. Harrison; Ward Six, W. H. Wilkinson; Ward Seven, John G. Taylor (died), Rawson Hathaway; Ward Eight, John Severson.

Clerk—A. T. Folsom.

Common Councilmen—President, William L. Smith; Ward One, J. H. Demond, Warren Emerson, J. C. McIntosh; Ward Two, Gideon Wells, H. M. Morehouse, George Dwight, Jr.; Ward Three, H. N. Tinkham, William H. Smith, Joseph H. Damon; Ward Four, D. B. Wesson, William L. Smith, W. S. Marsh; Ward Five, Charles Phelps, S. W. Porter, Charles Chapman; Ward Six, Gustavus D. Tapley; Ward Seven, John M. Meggett; Ward Eight, Samuel Mills.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1867.

Mayor—ALBERT D. BRIGGS.

Aldermen—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, F. H. Harris; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, John Severson.

Clerk—A. T. Folsom.

Common Councilmen—President, William L. Smith; Ward One, J. C. McIntosh, Warren Emerson, J. H. Demond; Ward Two, H. M. Morehouse, C. S. Hurlbut, L. A. Tifft; Ward Three, Charles Marsh, H. K. W. Dickinson, P. S. Bailey; Ward Four, W. L. Smith, W. S. Marsh, L. J. Powers; Ward Five, Charles Chapman, A. H. Clark, J. S. Brown; Ward Six, Charles A. Call; Ward Seven, E. W. Clark; Ward Eight, Samuel Mills.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1868.

Mayor—CHARLES A. WINCHESTER.

Aldermen—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, W. S. Marsh; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, E. W. Clark; Ward Eight, Milo Chapin.

Clerk—A. T. Folsom.

Common Councilmen—President, Henry S. Lee; Ward One, Warren Emerson, Josiah Bumstead, Roswell Lee; Ward Two, O. H. Greenleaf, Charles R. Ladd, Lewis A. Tifft; Ward Three, E. H. Patch, A. J. McIntosh, William H. Smith; Ward Four, Henry S. Lee, E. G. Norton, M. A. Clyde; Ward Five, Cyrus E. Buckland, Alden Warner, William R. Purple; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, George Swetland.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1869.

Mayor—CHARLES A. WINCHESTER.

Aldermen—Ward One, J. M. Cooley; Ward Two, George Dwight; Ward Three, William H. Smith; Ward Four, W. S. Marsh; Ward Five, Joseph M. Hall; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, Charles J. Goodwin.

Clerk—A. T. Folsom.

Common Councilmen—President, Henry S. Lee; Ward One, George M. Atwater, Josiah Bumstead, John Olmsted; Ward Two, Charles R. Ladd, O. H. Greenleaf, C. C. Smith; Ward Three, A. J. McIntosh, E. H. Patch, J. H. Appleton; Ward Four, Henry S. Lee, E. G. Norton, L. J. Powers; Ward Five, Alden Warner, E. B. Haskell, W. P. Taylor; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Swetland.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1870.

Mayor—WILLIAM L. SMITH.

Aldermen—Ward One, J. A. Rumrill; Ward Two, Eliphalet Trask; Ward Three, Dr. John Hooker; Ward Four, Willis Phelps; Ward Five, Joseph M. Hall; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Foster.

Clerk—A. T. Folsom.

Common Councilmen—President, Henry S. Lee; Ward One, Albert Holt, A. D. Day, C. B. Holbrook; Ward Two, George Dwight, Jr., James S. Bourke, David Legro; Ward Three, James E. McIntire, George W. Tapley, George S. Lewis; Ward Four, Henry S. Lee, Gurdon Bill, S. R. Phillips; Ward Five, Charles Phelps, William B. Miller, T. B. Wilson; Ward Six, George E. Howard; Ward Seven, John A. Hall; Ward Eight, Alfred S. Packard.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1871.

Mayor—WILLIAM L. SMITH.

Aldermen—Ward One, Josiah Bumstead; Ward Two, Charles R. Ladd; Ward Three, Lawson Sibley; Ward Four, James M. Thompson; Ward Five, Richard F. Hawkins; Ward Six, Isaac P. Dickinson; Ward Seven, John A. Hall; Ward Eight, Noyes Barstow.

Clerk—Albert T. Folsom.

Common Councilmen—President, Henry S. Lee; Ward One, Albert Holt, P. W. Brewster, F. J. Donahue; Ward Two, Milton Bradley, Tilly Haynes, R. Warren; Ward Three, B. C. English, S. B. Spooner, N. C. Newell; Ward Four, Henry S. Lee, Henry M. Phillips, E. A. Perkins; Ward Five, T. B. Wilson, J. C. Perry, E. B. Maynard; Ward Six, George E. Howard; Ward Seven, J. W. Lull; Ward Eight, George Swetland.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1872.

Mayor—SAMUEL B. SPOONER.

Aldermen—Ward Two, Charles R. Ladd; Ward Three, William H. Smith; Ward Four, Emerson Wight; Ward Five, Joseph M. Hall, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, William H. Pinney; Ward Eight, Noyes Barstow.

Clerk—Albert T. Folsom.

Common Councilmen—President, M. P. Knowlton; Ward One, F. J. Donahue, L. H. Powers, N. W. Fisk; Ward Two, O. H. Greenleaf, George W. Ray, Henry F. Trask; Ward Three, N. C. Newell, Samuel Palmer, George M. Smith; Ward Four, E. A. Perkins, H. M. Phillips, V. N. Taylor; Ward Five, M. P. Knowlton, E. B. Maynard, P. H. M. Brooks; Ward Six, E. A. Newell; Ward Seven, J. W. Lull; Ward Eight, W. L. Converse.

Clerk—Lucius E. Ladd.

City Clerk and Treasurer—Albert T. Fo'som.

CITY OFFICERS FOR 1873.

Mayor—SAMUEL B. SPOONER.

Aldermen—Ward One, H. S. Hyde; Ward Two, George W. Ray; Ward Three, E. H. Patch; Ward Four, Emerson Wight; Ward Five, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, L. A. Tifft; Ward Eight, Noyes Barstow.

Clerk—Albert T. Folsom.

Common Councilmen—President, M. P. Knowlton; Ward One, Florence J. Donahue, Noyes W. Fisk, Albert Holt; Ward Two, O. H. Greenleaf, H. F. Trask, S. C. Warriner; Ward Three, Joseph K. Newell, Charles M. Lee, Charles M. King; Ward Four, Varnum N. Taylor, E. A. Perkins, H. M. Phillips; Ward Five, M. P. Knowlton, J. D. McKnight, W. G. Chamberlain; Ward Six, E. A. Newell; Ward Seven, B. F. Farrar; Ward Eight, John Warriner.

Clerk—John A. Hall.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1874.

Mayor—JOHN M. STEBBINS.

Aldermen—Ward One, Albert Holt; Ward Two, Hugh Donnelly; Ward Three, A. J. McIntosh; Ward Four, L. J. Powers; Ward Five, Albert W. Allen; Ward Six, I. P. Dickinson; Ward Seven, J. W. Lull; Ward Eight, Henry C. Fuller.

Clerk—Albert T. Folsom.

Common Councilmen—President, T. B. Wilson; Ward One, D. J. Curtis, Horace Wheeler, James A. Byrnes; Ward Two, L. B. Lillie, M. L. Tourtellotte, P. J. Ryan; Ward Three, B. S. Haskins, Charles A. King, August Sheppert; Ward Four, J. H. Appleton, Homer Foot, Jr., D. J. Marsh; Ward Five, W. G. Chamberlain, T. B. Wilson, Benjamin Hannis; Ward Six, Daniel Schoonmaker; Ward Seven, E. W. Ladd; Ward Eight, John Warriner.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1875.

Mayor—EMERSON WIGHT.

Aldermen—Ward One, Hinsdale Smith; Ward Two, D. H. Brigham; Ward Three, F. H. Fuller; Ward Four, L. J. Powers; Ward Five, W. G. Chamberlain; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

Clerk—A. T. Folsom.

Common Councilmen—President, Henry S. Lee; Ward One, Horace Wheeler, James A. Byrnes, N. W. Fisk; Ward Two, S. E. Seymour, H. F. Trask, M. L. Tourtellotte; Ward Three, J. K. Newell, A. J. Plumer, J. K. Winter; Ward Four, Henry S. Lee, D. L. Harris, J. S. Carr; Ward Five, B. S. Haskins, Benjamin Hannis, E. S. Stacy; Ward Six, Daniel Schoonmaker; Ward Seven, E. P. Cook; Ward Eight, D. P. Woolson.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1876.

Mayor—EMERSON WIGHT.

Aldermen—Ward One, N. W. Talcott; Ward Two, George Dwight; Ward Three, J. K. Newell; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley; Ward Six, D. L. Swan; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

Clerk—A. T. Folsom.

Common Councilmen—President, H. F. Trask; Ward One, John Mulligan, J. M. Cooley, J. J. Moore; Ward Two, Milton Bradley, H. F. Trask, M. L. Tourtellotte; Ward Three, H. N. Tinkham, J. F. Tapley, Elijah Nichols; Ward Four, W. S. Shurtleff, D. L. Harris, J. S. Carr; Ward Five, H. W. Phelps, Edwin McElwain, E. S. Stacy; Ward Six, R. R. McGregor; Ward Seven, Larkin Newell; Ward Eight, Samuel F. Smith.

Clerk – E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1877.

Mayor—EMERSON WIGHT.

Aldermen—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley (resigned), Benj. Hannis; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

Clerk—Albert T. Folsom.

Common Councilmen—President, H. F. Trask; Ward One, John Mulligan, N. W. Fisk, L. H. Powers; Ward Two, H. F. Trask, M. L. Tourtellotte, George E. Frink; Ward Three, H. N. Tinkham, Elijah Nichols, George B. Smith; Ward Four, Daniel L. Harris, William S. Shurtleff, J. K. Newell; Ward Five, Edwin McElwain, John A. Hall, A. J. Wright; Ward Six, H. C. Puffer; Ward Seven, E. W. Ladd; Ward Eight, Milo Chapin.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1878.

Mayor—EMERSON WIGHT.

Aldermen—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, John A. Hall; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

Clerk—Albert T. Folsom.

Common Councilmen—President, A. J. Wright; Ward One, John Mulligan, L. H. Powers, E. Belding; Ward Two, Dr. H. G. Stickney, Dr. A. R. Rice, E. M. Bartlett; Ward Three, Elijah Nichols, George B. Smith, J. R. Smith; Ward Four, W. S. Shurtleff, J. K. Newell, H. A. Gould; Ward Five, A. J. Wright, N. W. Howard, S. L. Hodgdon; Ward Six, George R. Dickinson; Ward Seven, Edwin W. Ladd; Ward Eight, F. M. Bardwell.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1879.

Mayor—LEWIS J. POWERS.

Aldermen—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

Clerk—A. T. Folsom.

Common Councilmen—President, J. R. Smith; Ward One, John Mulligan, E. Belding, J. W. Baldwin; Ward Two, E. H. Phelps, Horace Jacobs, F. A. Judd; Ward Three, J. R. Smith, Elijah Nichols, Frank E. Winter; Ward Four, Henry A. Gould, George B. Holbrook, C. J. Sanderson; Ward Five, N. W. Howard, S. L. Hodgdon, M. J. Chamberlain; Ward Six, E. M. Lombard; Ward Seven, Charles Taylor; Ward Eight, F. M. Bardwell.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1880.

Mayor—LEWIS J. POWERS.

Aldermen—Ward One, John Olmsted; Ward Two, S. C. Warriner; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

Clerk—A. T. Folsom.

Common Councilmen—President, Elijah Belding; Ward One, E. Belding, Ethan C. Robinson, Harlan P. Stone; Ward Two, Fred A. Judd, E. H. Young, E. M. Bartlett; Ward Three, Elijah Nichols, Frank E. Winter, Emory Meekins; Ward Four, George B. Holbrook, Charles J. Sanderson, William H. Haile; Ward Five, Nathaniel W. Howard, Sewall L. Hodgdon, James D. Gill; Ward Six, Edward M. Lombard; Ward Seven, Charles Taylor; Ward Eight, Frank M. Bardwell.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1881.

Mayor—WILLIAM H. HAILE.

Aldermen—Ward One, Elijah Belding; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, H. K. Wight.

Clerk—A. T. Folsom.

Common Councilmen—President, Charles J. Sanderson; Ward One, Harlan P. Stone, Hoyt E. Howard, Henry J. Beebe; Ward Two, Fred A. Judd, Edwin M. Bartlett, John Lobsitz; Ward Three, George P. Stebbins, Jacob C. Lutz, Simpson Clark; Ward Four, Charles J. Sanderson, William B. Walker, Edmund P. Kendrick; Ward Five, James D. Gill, Henry Dana, James F. Brierly; Ward Six, Albert E. Foth; Ward Seven, William C. Bemis; Ward Eight, George Foster.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1882.

Mayor—EDWIN W. LADD.

Aldermen—Ward One Henry D. Carroll; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, Davenport L. Fuller.

Clerk—Albert T. Folsom.

Common Councilmen—President, Edmund P. Kendrick; Ward One, Harlan P. Stone, Henry J. Beebe, Ethan C. Robinson; Ward Two, Fred A. Judd, Frank M. Bugbee, Frank E. Carpenter; Ward Three, Simpson Clark, Jacob C. Lutz, James D. Parsons; Ward Four, Edmund P. Kendrick, James C. Alden, Edward C. Rogers; Ward Five, Henry Dana, Charles E. Dodge, Charles Fuller; Ward Six, George McGregory; Ward Seven, John S. Sanderson; Ward Eight, Edward D. Chapman.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1883.

Mayor—HENRY M. PHILLIPS.

Aldermen—Ward One, Harlan P. Stone; Ward Two, Fred A. Judd; Ward Four, James Kirkham; Ward Four, James C. Alden; Ward Five, James D. Gill; Ward Six, Charles A. Call; Ward Seven, George Nye; Ward Seven, John S. Sanderson.

Clerk—A. T. Folsom.

Common Councilmen—President, E. P. Kendrick; Ward One, Charles McKay, J. F. Callanan, John L. Knight; Ward Two, Frank E. Carpenter, Frank M. Bugbee, James A. Bill, Jr.; Ward Three, Jacob C. Lutz, Simpson Clark, W. F. Cook; Ward Four, Edmund P. Kendrick, Edward C. Rogers, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, Whiteman T. Steere; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1884.

Mayor—HENRY M. PHILLIPS.

Aldermen—Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, George W. Tapley; Ward Five, Henry M. Brewster; Ward Six, Charles A. Call; Ward Seven, George Nye, John S. Sanderson; Ward Eight, Davenport L. Fuller.

Clerk—A. T. Folsom.

Common Councilmen—President, Edward C. Rogers; Ward One, Henry L. Whitcomb, John L. Knight, Patrick C. O'Connor; Ward Two, Hosea C. Lombard, James A. Bill, Jr., James N. Dodge; Ward Three, Simpson Clark, George F. Clark, James S. Adams; Ward Four, Edward C. Rogers, Charles L. Long, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, J. H. Hendrick; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1885.

Mayor—HENRY M. PHILLIPS.

Aldermen—Ward One, John L. Knight; Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, Daniel P. Crocker; Ward Five, Charles Taylor; Ward Six, Charles A. Call; Ward Seven, John S. Sanderson; Ward Eight, George W. Miller.

Clerk—A. T. Folsom.

Common Councilmen—President, Charles L. Long; Ward One, George E. Frink, James F. Bidwell, Henry M. Castle; Ward Two, James A. Bill, Jr., Hosea C. Lombard, Edwin F. Lyford; Ward Three, Edgar C. Whittemore, Richard D. Whitney, John H. Clune; Ward Four, Henry H. Bowman, Charles L. Long, Alfred N. Mayo; Ward Five, George H. Wells, Joel H. Hendrick, James Kimball; Ward Six, Oscar S. Greenleaf; Ward Seven, Richard W. Pinney; Ward Eight, Horatio E. D. Green.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1886.

Mayor—EDWIN D. METCALF.

Aldermen—President, Andrew Y. Beach; Ward One, James F. Bidwell; Ward Two, Andrew Y. Beach; Ward Three, George B. Holbrook; Ward Four, George W. Tapley; Ward Five, Joel H. Hendrick; Ward Six, Walter H. Wesson; Ward Seven, Richard W. Pinney; Ward Eight, George W. Miller.

Clerk—A. T. Folsom.

Common Councilmen—President, Charles L. Long; Ward One, George E. Frink, Charles A. Fisk, R. Hale Smith; Ward Two, James A. Bill, Jr., Edwin F. Lyford, Samuel J. Whyte; Ward Three, John H. Clune, Claudius C. Margerum, William F. Callender; Ward Four, Charles L. Long, Henry H. Bowman, Alfred N. Mayo; Ward Five, Thomas S. Stewart, Edward S. Bradford, Marcus M. Kendall; Ward Six, William L. Dickinson; Ward Seven, George W. Hall; Ward Eight, Horatio E. D. Green.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1887.

Mayor—E. B. MAYNARD.

Aldermen—President, James F. Bidwell; Ward One, James F. Bidwell; Ward Two, Frank M. Bugbee; Ward Three, William F. Callender; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

Clerk—Albert T. Folsom.

Common Councilmen—President, Henry H. Bowman; Ward One, Frederick H. Stebbins, John Dollan, Frank C. Leonard; Ward Two, Frank S. Crane, James A. Bill, Jr., Newrie D. Winter; Ward Three, Claudius C. Margerum, James E. Dunleavy, Howard N. Newell; Ward Four, Henry H. Bowman, William W. More, Charles E. Brown; Ward Five, Edward S. Bradford, Marcus M. Kendall, William C. Newell; Ward Six, Edward J. Flannery; Ward Seven, Landomer E. Pease; Ward Eight, James H. Morley.

Clerk—E. A. Newell.

City Clerk and Treasurer—Albert T. Folsom.

CITY OFFICERS FOR 1888.

Mayor—E. B. MAYNARD.

Aldermen—President, Frank M. Bugbee; Ward One, John C. McIntosh; Ward Two, Frank M. Bugbee; Ward Three, Lawson Sibley; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

Clerk—E. A. Newell.

Common Councilmen—President, Newrie D. Winter; Ward One, Frederick H. Stebbins, Frank C. Leonard, George W. Turner; Ward Two, Newrie D. Winter, Charles C. Parkhurst, Edward F. Tower; Ward Three, James E. Dunleavy, Frederick S. Newman, Leonard Schadt; Ward Four, William W. More, Charles E. Brown, George Leonard; Ward Five, Edward S. Bradford, Marcus M. Kendall, James W. Anderson; Ward Six, Edward J. Flannery; Ward Seven, Charles E. Ladd; Ward Eight, E. A. Grise.

Clerk—Tom Fitzgibbon.

City Clerk—E. A. Newell.

City Treasurer—E. T. Tifft.

CITY OFFICERS FOR 1889.

Mayor—EDWARD S. BRADFORD.

Aldermen—President, John C. McIntosh; Ward One, John C. McIntosh; Ward Two, Charles C. Parkhurst; Ward Three, Herbert C. Puffer; Ward Four, John A. Murphy; Ward Five, John McFethries; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orson Moulton.

Clerk—E. A. Newell.

Common Councilmen—President, George Leonard; Ward One, George W. Turner, Leroy Z. Cutler, William F. Ray; Ward Two, Waldo R. Forrester, Francke W. Dickinson, Dr. George E. Foster; Ward Three, Leonard Schadt, Jacob G. Lutz, John P. Casman; Ward Four, William W. More, George Leonard, Charles Van Vlack; Ward Five, Milan W. Bull, Ruel R. Nickerson, Thomas H. Benton; Ward Six, Cornelius W. Phillips; Ward Seven, Charles E. Ladd; Ward Eight, Loren W. King.

Clerk—Andrew O. McGarrett.

City Clerk—E. A. Newell.

City Treasurer—E. T. Tifft.

CITY OFFICERS FOR 1890.

Mayor—EDWARD S. BRADFORD.

Aldermen—President, Henry S. Dickinson; Ward One, George W. Turner; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edmund P. Kendrick; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orrin E. Tilley

Clerk—E. A. Newell.

Common Councilmen—President, George Leonard; Ward One, Leroy Z. Cutler, William F. Ray, Louis C. Hyde, Ward Two, Francke W Dickinson, George D Fisk, John B. King; Ward Three, John P. Casman, Arthur A. Couch, George J. Seuss; Ward Four, George Leonard, Charles Van Vlack, Frederick H. Gillett; Ward Five, Milan W. Bull, George H Clark, George H. Kemater; Ward Six, Cornelius W. Phillips; Ward Seven, Benjamin C. Harvey; Ward Eight, Charles E. Jennings.

Clerk—Andrew O. McGarrett.

City Clerk—E. A. Newell.

City Treasurer—E. T. Tifft.

CITY OFFICERS FOR 1891.

Mayor—EDWARD S. BRADFORD.

Aldermen—President, John A. Murphy; Ward One, Louis C. Hyde; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edward H. Lathrop; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Orrin E. Tilley.

Clerk—E. A. Newell.

Common Councilmen—President, Francke W. Dickinson; Ward One, Henry E. Marsh, John McDonald, Charles H. Mulligan; Ward Two, Francke W. Dickinson, John B. King, Dwight O. Gilmore; Ward Three, George J. Seuss, Charles W. Turk, Jeremiah F. Mahoney; Ward Four, Charles Van Vlack, W. F. Adams, James D. Norton; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Charles E. Jennings.

Clerk—Andrew O. McGarrett.

City Clerk—E. A. Newell.

City Treasurer—E. T. Tifft.

CITY OFFICERS FOR 1892.

Mayor—LAWSON SIBLEY.

Aldermen—President, Frederick Harris; Ward One, Louis C. Hyde; Ward Two, Frank E. Carpenter; Ward Three, Claudius C. Margerum; Ward Four, Charles M. Mather; Ward Five, Samuel D. Sherwood; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

Clerk—Elijah A. Newell.

Common Councilmen—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Henry W. Sexton; Ward Two, Edwin A. Carter, Dwight O. Gilmore, James J. Sullivan; Ward Three, George J. Seuss, Jeremiah F. Mahoney, John Sharrocks; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William M. Gray, William A. Harris, Stillman L. Tuttle; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Henry A. Braman.

Clerk—Andrew O. McGarrett. (resigned)—Wm. E. Gilbert.

City Clerk—E. A. Newell.

City Treasurer—E. T. Tifft.

CITY OFFICERS FOR 1893.

Mayor—EDMUND P. KENDRICK.

Aldermen—President, George Nye; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Claudius C. Margerum; Ward Four, Henry H. Bowman; Ward Five, George Nye; Ward Six, Nathan D. Bill; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

Clerk—Elijah A. Newell.

Common Councilmen—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Winford N. Caldwell; Ward Two, Walter G. Morse, Charles W. Perkins, George B. Rathbun; Ward Three, Harry P. Elsey, George F. Sessions, Charles Workheiser; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William A. Harris, Edwin S. Field, Frederick B. Miller; Ward Six, Eugene Young; Ward Seven, William H. Gage; Ward Eight, Merrill E. Streeter.

Clerk—William E. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—E. T. Tifft.

CITY OFFICERS FOR 1894.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, Henry H. Bowman; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Gustave Remkus; Ward Four, Henry H. Bowman; Ward Five, George A. Russell; Ward Six, Claudius C. Margerum; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George F. Sessions; Ward One, William C. Hayes, Charles L. Burr, George F. Fuller; Ward Two, Maurice P. Cavanaugh, Charles W. Perkins, Frank H. Elwell; Ward Three, Harry P. Elsey, George F. Sessions, Robert A. Grant; Ward Four, Howard A. Gibbs, Robert A. Knight, Paul R. Hawkins; Ward Five, Edwin S. Field, Frederick B. Miller, Fred C. Wright; Ward Six, Edward C. Hamilton; Ward Seven, William S. Bemis; Ward Eight, Philip C. Sullivan.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1895.

MAYOR—CHARLES L. LONG.

ALDERMEN—President, George A. Russell; Ward One, George F. Fuller; Ward Two, Albert E. Foth; Ward Three, Gustave Remkus; Ward Four, Henry L. Gaylord; Ward Five, George A. Russell; Ward Six, Walter P. Goodenough; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Robert A. Knight; Ward One, Charles L. Burr, Lewis D. Robinson, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Frank H. Elwell, Charles D. Rathbun; Ward Three, Adin W. Bangs, Robert A. Grant, George W. D. Upton; Ward Four, Howard A Gibbs, Paul R. Hawkins, Robert A. Knight; Ward Five, Albert P. Casey, Augustus A. Howard, Frederick B. Miller; Ward Six, Edward C. Hamilton; Ward seven, Charles E. Ladd; Ward Eight, John R. Reed.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1896.

MAYOR—NEWRIE D. WINTER.

ALDERMEN—President, Henry S. Dickinson; Ward One, Charles L. Burr; Ward Two, Dwight O. Gilmore; Ward Three, George J. Seuss; Ward Four, Henry S. Dickinson; Ward Five, Charles H. Parsons; Ward Six, Charles Rogers; Ward Seven, Charles E. Ladd; Ward Eight, Octave A. La Riviere.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Maurice P. Cavanaugh; Ward One, Frank H. Bills, William J. McCann, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Harry C. Collins, Charles T. Winchester; Ward Three, Henry D. Marsh, Frank D. Quilty, George W. D. Upton; Ward Four, Ralph W. Ellis, Zera W. Smith, Fred H. Sturtevant; Ward Five, Frank W. Barker, Augustus A. Howard, Edward R. Lee; Ward Six, Frank D. Kemp; Ward Seven, William W. Bartlett; Ward Eight, Charles O. Churchill.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1897.

Mayor—HENRY S. DICKINSON.

Aldermen—President, Dwight O. Gilmore; Ward One, Willard F. Tripp; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

Clerk—E. A. Newell.

Common Councilmen—President, Frank W. Barker; Ward One, Orville A. Dodge, Lewis D. Robinson; Ward Two, Luke J. Coogan, Henry D. Shaw, Harry J. Vesper; Ward Three, Charles H. Dunham, Frank H. Elwell; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Frank W. Barker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Dennis Casey, Jr.; Ward Seven, George A. Bacon, William W. Bartlett; Ward Eight, Charles O. Churchill, Alexander C. Methven, Fordis C. Parker.

Clerk—William E. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1898.

Mayor—HENRY S. DICKINSON.

Aldermen—President, Dwight O. Gilmore; Ward One, Lewis D. Robinson; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

Clerk—E. A. Newell.

Common Councilmen—President, Fordis C. Parker; Ward One, Orville A. Dodge, Franklin A. Latimer, Jr.; Ward Two, Luke J. Coogan, Matthew R. Mansfield, William A. Strange; Ward Three, Edward T. Davis, Harry H. Parkhurst; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Fordis C. Parker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Samuel M. Jones; Ward Seven, George A. Bacon, Seth J. Buckland; Ward Eight, Albert E. W. Drake, Alexander C. Methven, William F. Mundell.

Clerk—William E. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1899.

Mayor—DWIGHT O. GILMORE.

Aldermen—President, Charles H. Mulligan; Ward One, Franklin A. Latimer, Jr.; Ward Two, Charles H. Mulligan; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred. A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

Clerk—E. A. Newell.

Common Councilmen—President, Fred O. Clapp; Ward One, Fred O. Clapp, Edwin B. Woodin; Ward Two, Luke J. Coogan, Patrick J. McCarty, Patrick J. Mitchell; Ward Three, Gottlieb Baer, George W. D. Upton; Ward Four, Lincoln C. Haynes, William W. Tapley; Ward Five, Theodore F. Dwight, Charles A. Wright; Ward Six, Frederick S. Ladd, George Smith; Ward Seven, Albert G. Bennett, Jr., Seth J. Buckland; Ward Eight, Albert E. W. Drake, William F. Mundell, Woodward E. Murkland.

Clerk—William E. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1900.

Mayor—WILLIAM P. HAYES.

Aldermen—President, Edwin A. Blodgett; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

Clerk—E. A. Newell.

Common Councilmen—President, Albert G. Bennett, Jr.; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, John M. Sullivan; Ward Three, George W. D. Upton, Napoleon L. Byron; Ward Four, William W. Tapley, F. Winthrop Edwards; Ward Five, Theodore F. Dwight, George Nye, Jr.; Ward Six, George Smith, Eugene M. Tinkham; Ward Seven, Albert G. Bennett, Jr., William A. Newton; Ward Eight, William F. Mundell, Oliver E. Hines, Everett E. Stone.

Clerk—William E. Gilbert (resigned), H. S. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1901.

Mayor—WILLIAM P. HAYES.

Aldermen—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Henry D. Marsh; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Frank D. Kemp; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Edward J. Murphy.

Clerk—E. A. Newell.

Common Councilmen—President, Everett E. Stone; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, Patrick J. Delaney; Ward Three, George H. McClean, William W. Warren; Ward Four, F. Winthrop Edwards, Henry P. Norris; Ward 5, Calvin S. Whitcomb, George Nye, Jr.; Ward Six, John J. Hamilton, Eugene M. Tinkham; Ward Seven, Henry G. Chapin, William A. Newton; Ward 8, Oliver E. Hines, Everett E. Stone, William T. Webster.

Clerk—H. S. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1902.

Mayor — RALPH W. ELLIS.

Aldermen — President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Napoleon L. Byron; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Paul R. Hawkins; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Everett E. Stone.

Clerk — Elijah A. Newell.

Common Councilmen — President, William E. Sanderson; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Sylvester P. Callanan, Patrick J. Delaney, James E. Dunn; Ward Three, Charles F. Bogardus, George H. McClean; Ward Four, Henry P. Norris, Alfred F. H. Pillsbury; Ward Five, George Nye, Jr., Calvin S. Whitcomb; Ward Six, Joseph C. Allen, John J. Hamilton; Ward Seven, Henry G. Chapin, Edward O. Doten; Ward Eight, Henry S. Keyes, Charles S. Potter, William T. Webster.

Clerk — H. S. Gilbert.

City Clerk — Elijah A. Newell.

City Treasurer — Eliphalet T. Tifft.

CITY OFFICERS FOR 1903.

Mayor—EVERETT E. STONE.

Aldermen—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Joseph C. Allen; Ward Seven, Oscar S. Greenleaf; Ward Eight, Oliver E. Hines.

Clerk—Elijah A. Newell.

Common Councilmen—President, Henry G. Chapin; Ward One, William C. Bartlett, Wayland V. James; Ward Two, Patrick J. Delaney, Thomas J. Burke, William H. Grady; Ward Three, George V. Lovely, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Clinton Gowdy, Albert R. Green; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Edward P. Blague.

Clerk—H. S. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1904.

Mayor—EVERETT E. STONE.

Aldermen—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Frederick S. Ladd; Ward Seven, Oscar S. Greenleaf; Ward Eight, William R. Sessions.

Clerk—Elijah A. Newell.

Common Councilmen—President, Henry G. Chapin; Ward One, William C. Bartlett, Henry N. Bowman; Ward Two, Thomas J. Burke, William H. Grady, William F. Houlihan; Ward Three, George H. Hadd, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Albert R. Green, Frank E. Stacy; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Howard O. Buck.

Clerk—H. S. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1905.

Mayor—FRANCKE W. DICKINSON.

Aldermen—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Henry P. Norris; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, William R. Sessions.

Clerk—Elijah A. Newell.

Common Councilmen—President, Charles S. Potter; Ward One, Charles Adams, Henry N. Bowman; Ward Two, William F. Houlihan, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, Henry R. Morrissey; Ward Seven, Fred R. Brown, Edwin G. Remkus; Ward Eight, Charles S. Potter, Howard O. Buck, Ralph Waldo Wight.

Clerk—H. S. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

CITY OFFICERS FOR 1906.

Mayor—FRANCKE W. DICKINSON.

Aldermen—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Arthur H. Rogers; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, Charles S. Potter.

Clerk—Elijah A. Newell.

Common Councilmen—President, Ralph Waldo Wight; Ward One, Charles Adams, Henry N. Bowman; Ward Two, John J. Collins, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, George D. Chamberlain, Henry R. Morrissey; Ward Seven, Fred R. Brown, John Lafayette Scott; Ward Eight, William Addison, Ralph Waldo Wight, Howard O. Buck (resigned).

Clerk—H. S. Gilbert.

City Clerk—Elijah A. Newell.

City Treasurer—Eliphalet T. Tifft.

OFFICE OF THE AUDITOR OF ACCOUNTS,
CITY OF SPRINGFIELD, January, 1907.

To Persons having Claims against the City:—

All persons furnishing materials or service for the City should be careful to take the name of the person ordering such service or materials, should inquire to what *department* the charge shall be made, and should also *know* that the person is duly authorized to make contracts.

When there are charges belonging to *different departments, separate bills must be made,* including only charges belonging to each department, and each bill must be sent to the person authorizing the charge, for his approval.

Unless this is done, the bill will not be acted upon by the Auditor of Accounts and cannot be paid by the Treasurer. See Sections 2 and 4, Chapter 3, Revised Ordinances of the City of Springfield.

"SEC. 2. No account or claim against the City shall be acted upon by the Auditor of Accounts, unless such account or claim shall be accompanied by a certificate of the Mayor, *or of some officer, Committee, or Agent,* authorized on behalf of the City, to make the contract, or cause the expenditure, that the same is correct."

"SEC. 4. Heads of departments shall certify to the correctness of all bills incurred by them, and, after approval thereof by the committee or board authorized to approve their department expenditures, shall forward the same without delay to the Auditor of Accounts on or before the fourth day of each month."

WILLIAM C. MARSH,
Auditor of Accounts.